Aspire L5100

Veriton L410

Service Guide

Service guide files and updates are available on the AIPG/CSD web; for more information please refer to http://csd.acer.com.tw

PRINTED IN TAIWAN

Revision History

Please refer to the table below for the updates made on Aspire L5100/Veriton L410 service guide.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

SCREEN MESSAGES	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Remind you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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System Specifications

Features

Operating System

- Microsoft Windows Vista (Home Basic, Home Premium, Business)

Processor

- Socket Type: AMD AM2 socket processors
- Processor Type:
  - AMD Sempron 3400+/3500+/3600+/3800+ 35W TDP
  - AMD Athlon64 3500+3800+ 45W TDP
  - AMD Athlon64x2 4000+/4400+/4800+/5000+/5200+ 65W

    TDP

Chipset

- North Bridge: RS690 (A12)
- South Bridge: SB600 (A21)

PCB

- Form Factor: Micro ATX
- Dimension/Layer: 234 x172mm

Memory

- Memory Type: Dual Channel DDR2 667/533, SO-DIMM
- Support single channel 64 bit mode with maximum memory size up to 2GB
- Support un-buffered DIMM s only
- DIMM Slot: 2
- Memory Max: 512MB / 2GB DDR2 memory technologies
- Capacity: 256MB to 1 GB DDR2 533/667 DDR2 SO-DIMM support

Graphics

- ATI RS690 on die graphic solution
    - DVMT 4.0 technology support

- Integrated a DirectX9.0 compliant 2D/3D graphics core
- Integrated a ATI Radeon X700-based graphics engine

PCI

- PCI Express Slot Type: x16
- Support 1x Mini PCIe x1
- PCI supported
- PCI supported

IDE interface

- Single PATA channel support
- Supports PIO, Multi-word DMA, and Ultra DMA 33/66/100/133 modes
- Support 1 IDE port

SATA

- Support 2 SATA port, complying with the SATA 2.0 specification

- Support SATA II 3.0GHz PHY, with backward compatibility with 1.5GHz

Audio

- Audio Type: HD audio codec
- Audio Channel: 7.1 channel
- Realtek ALC888-GR,colay with ALC888S(default)
- Support S/PDIF: S/PDIF-out header (1*4)

LAN

- LAN-RTL 8111C 10/100/1000 Gigabit Controller
  - 10/100/1000BASE-T IEEE 802.3, IEEE802.3u, IEEE802.3ab compliant
  - Support Fully Duplex flow control (IEE 802.3x)
  - Supports pair swap/polarity/skew correction.
  - Wake-on-LAN and remote wake-up support.

USB

- X9 USB2.0/1.1(Rear 4 ports, Front 5ports/1 for KB wireless receiver, 4 for 40pin B2B header)

1394

- 1394 header x 1 and Back I/O *1 (TSB43AB23PDTG4 2-port)

BIOS

- BIOS Type: SST 49LF004B FWH
- 4Mbit symmetrical Flash
- Note:
  - Boot ROM should be included (PXE function should be built in with default and RPL function is optional by service BIOS)
  - Compliant with latest ASF 2.0 spec
  - Compliant with latest SMT 2.0 spec
  - Compliant with latest Intel Virtualization Technology spec

I/O Connector

- Controller: Super I/O ITE 8718F-EX with hardware monitor

Rear I/O Connector

- Dual stack USB ports with 1394 connector for 1394 SKU.
- Dual Stack USB ports for non-1394 SKU.
- Dual Stack USB ports with RJ-45 connector
- Vertical Audio connector with 5 JACKS+SPDIF OUT.
- DVI-I port
- HDMI port
- DC IN JACK

On-board connectors

- LGA AM2 CPU socket
- DDR2 memory sockets
- PCI Express x 1 slot

- PCI slots
- SATA2 connectors
- Serial port 2*5 pin connector (2nd serial port)
- HD audio digital header
- 4 pin CPU Fan connector
- 3 pin System FAN connector with linear circuit
- 1394 header
- Jumper for clear CMOS
- Color management for on board connecters (please refer to Acer spec)
- Header for CIR & IR blaster function (Check ITE Solution)

Power Supply

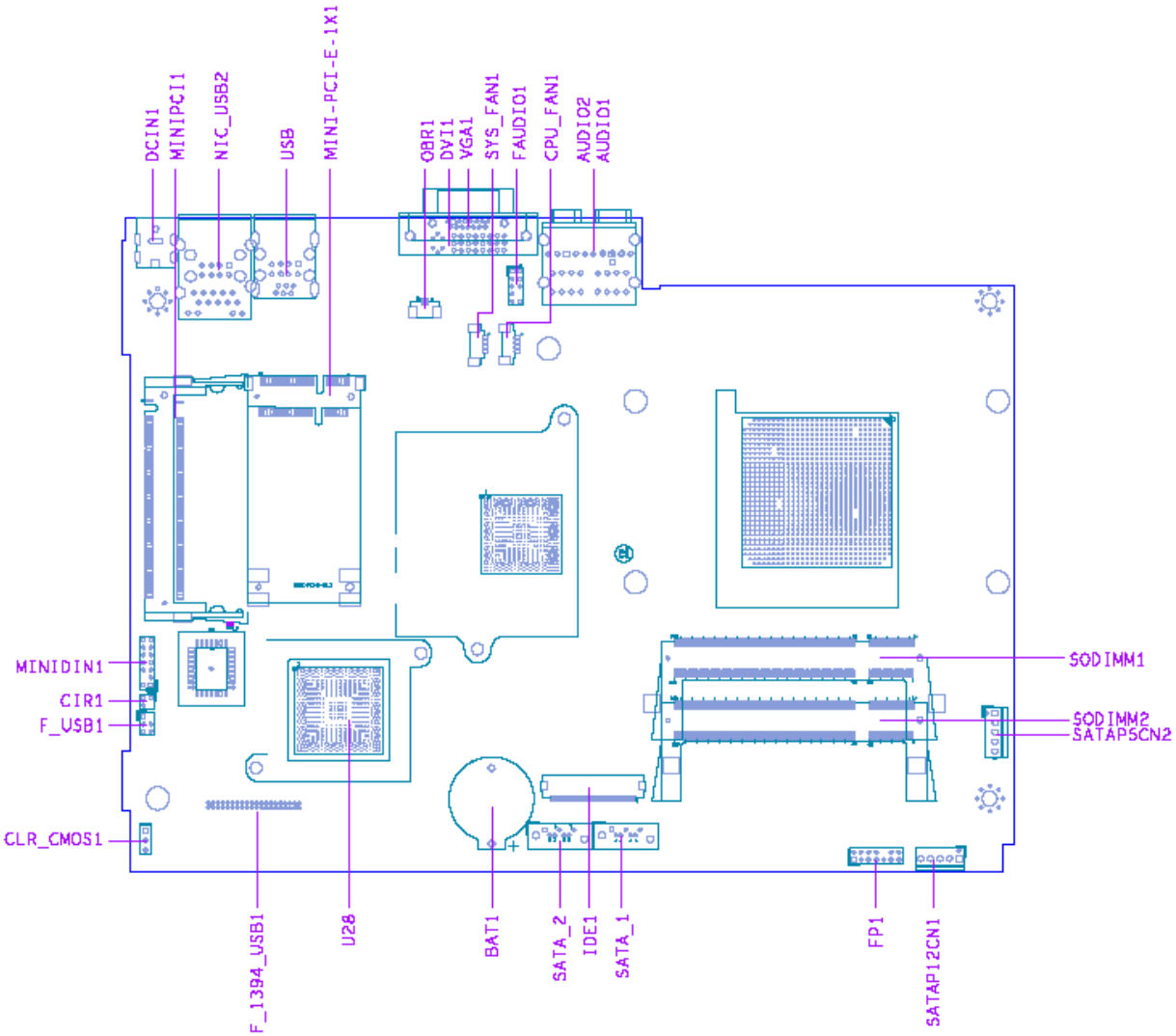
- Fully supports ACPI states S1,S3,S4,and S5
- The Chip Power Management Support state can be achieved by

software control bits

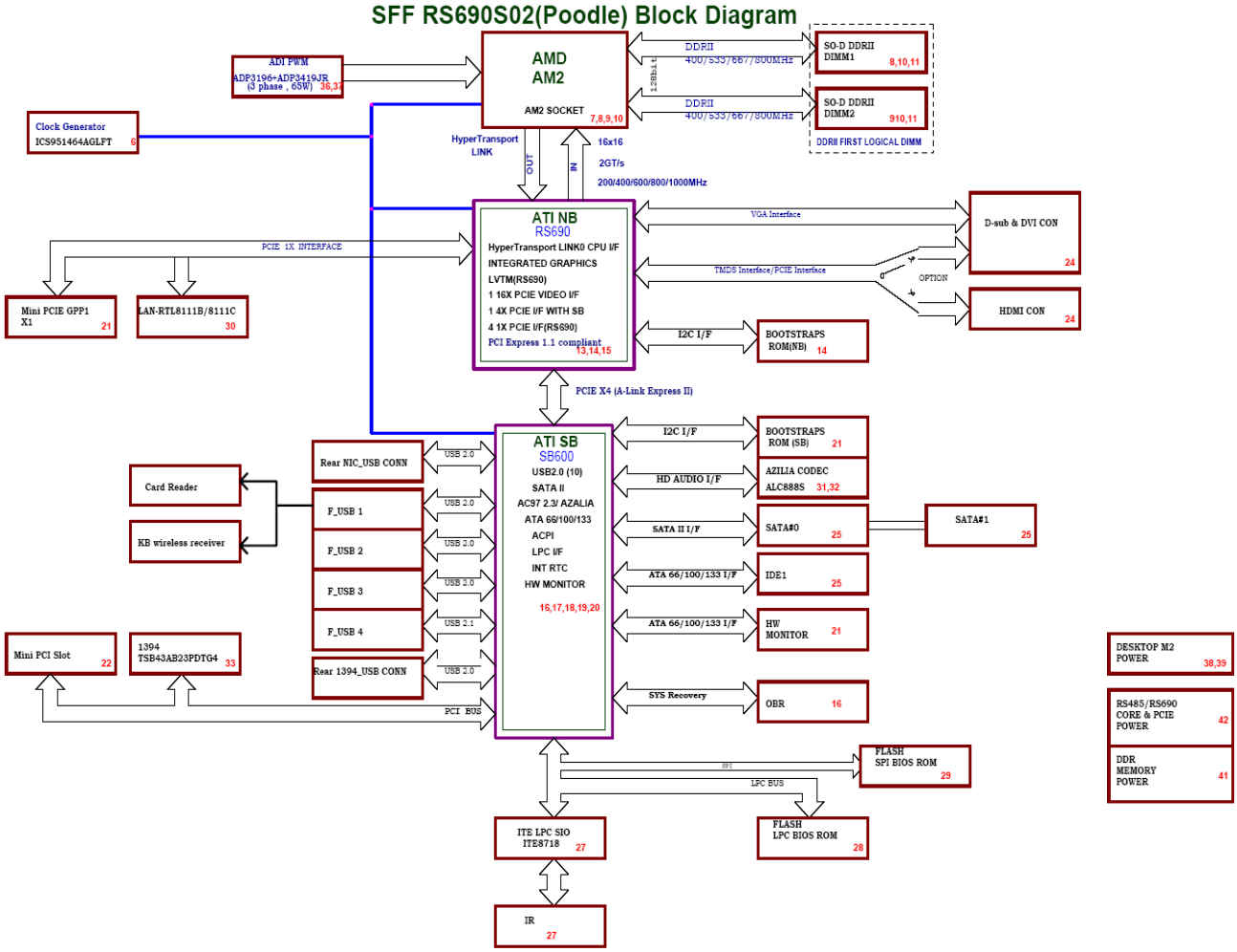
- Hardware controlled intelligent clock gate
- Support for Cool`n`Quiet via FID/VID change
- Support for PowerNow
- Support ATI PowerOnDemand
- Power On Suspend (POS) or ACPI S1 support
- Suspend to RAM (STR) or ACPI S3 support
- Suspend to Disk (STD) or ACPI S4/S5 support
- Supports C2, C3, and C4 states
- Provides clock generator and CPU STPCLK# control
- Supports dynamic lane reduction for the PCI-E interface
- System Clocks
- Memory DDR2: 667/533
- PCI 33 MHz

- PCI Express 100 MHz
- USB 48 MHz
- SIO 48 MHz
- RTC 32.768 KHz
- LAN 25MHz
- Audio Codec 24MHz

Main board Placement

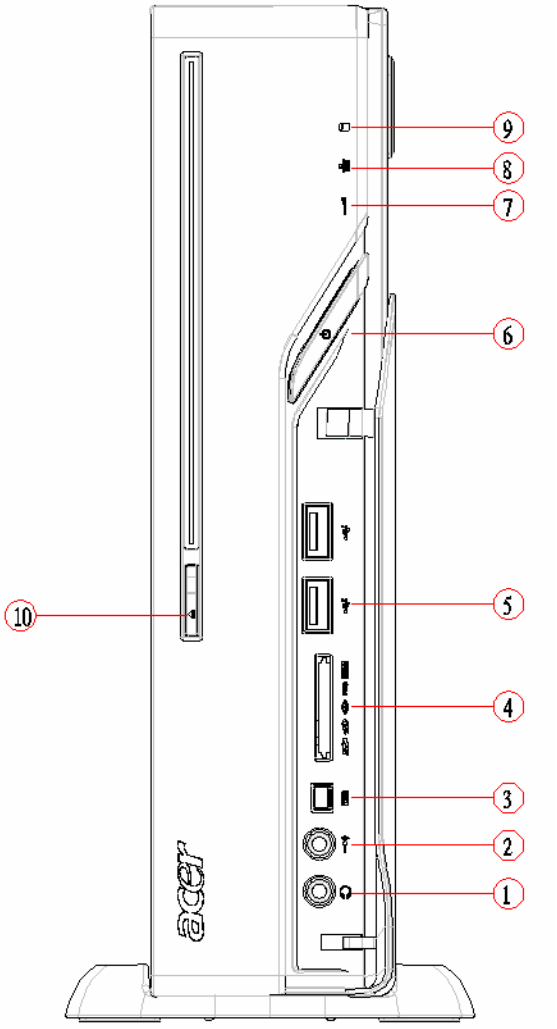


Block Diagram



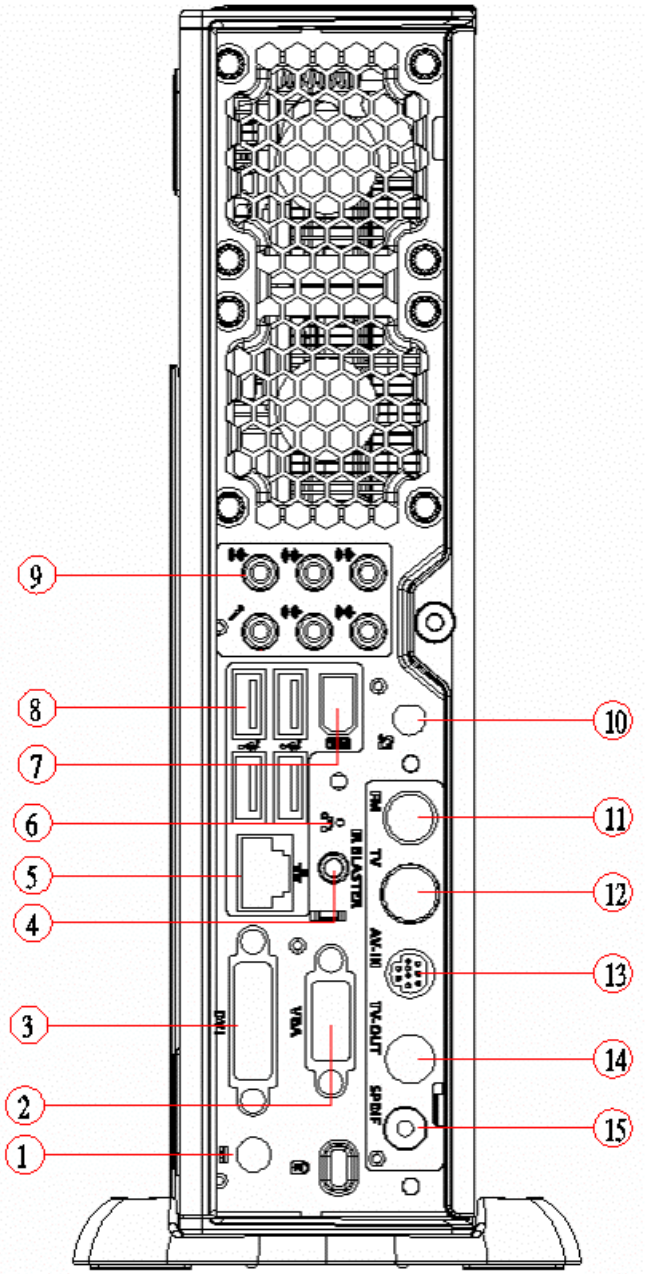
Aspire L5100 Front Panel

The computer's front panel consists of the following:



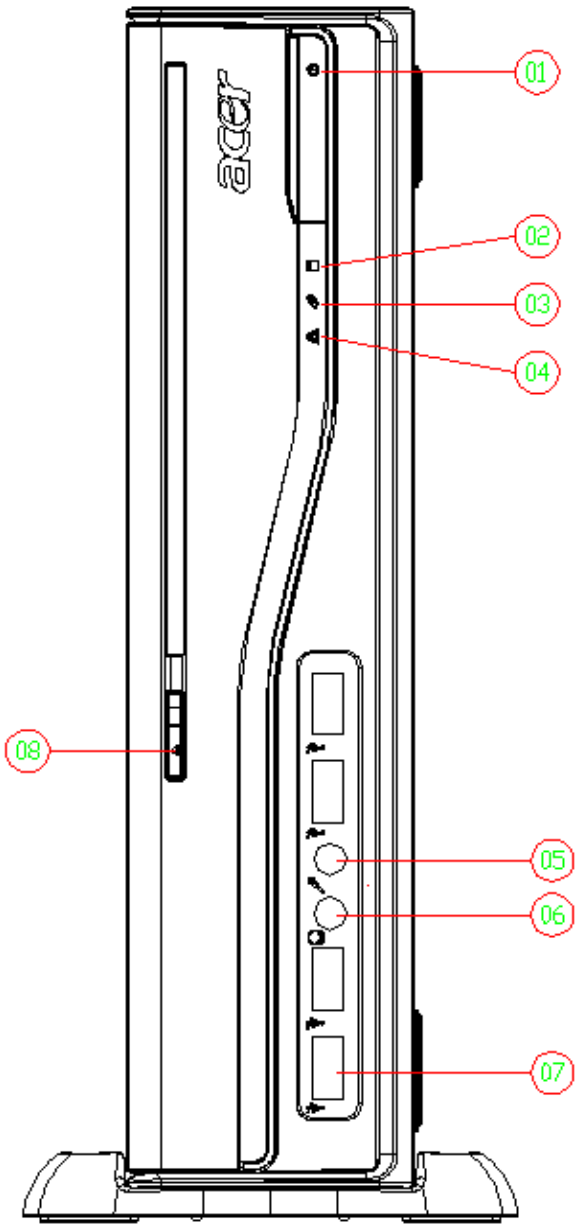
Label	Description
1	SPEAKER OUT
2	MIC PHONE
3	1394 PORTS
4	CARD-READER port
5	USB PORTS
6	POWER BUTTON
7	IR LED
8	LAN LED
9	HDD LED
10	ODD BUTTON

Aspire L5100 Rear Panel



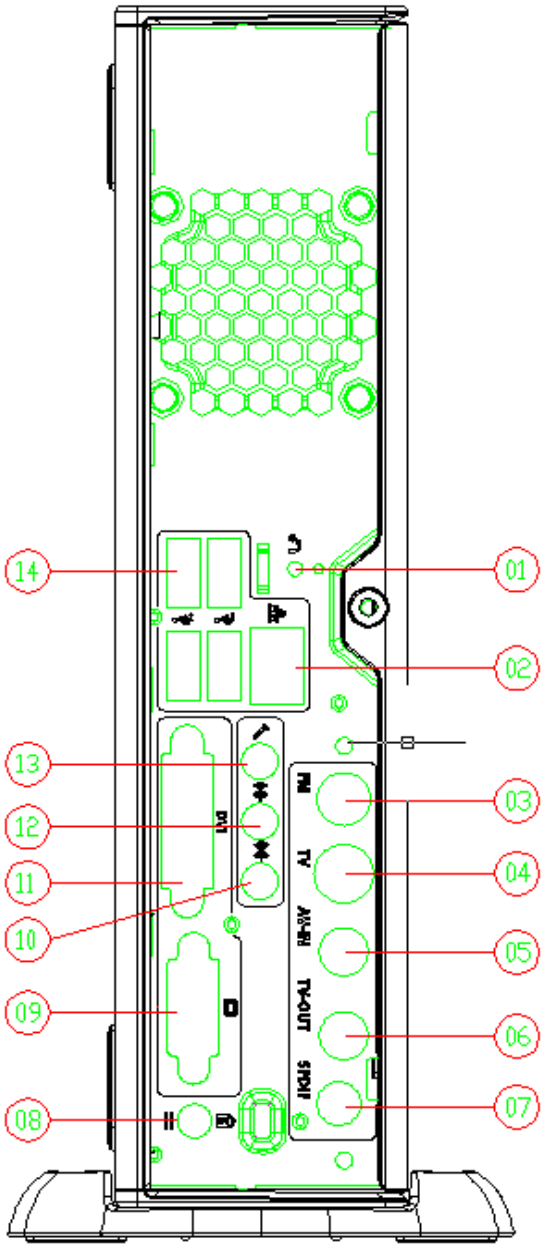
Label	Description	Label	Description
1	DC jack	9	6audio jacks
2	VGA	10	ANTENNA Port
3	DVII port	11	FM Port
4	IR-Blaster	12	TV Port
5	LAN PORT	13	AV IN
6	OBR	14	TV OUT
7	1394 Port	15	Spdif Port
8	USB PORTS		

Veriton L410 Front Panel



Label	Description
1	POWER BUTTON
2	HDD LED
3	HDD LED
4	ODD LED
5	SPEAKER OUT
6	MIC PHONE
7	USB PORTS
8	ODD BUTTON

Veriton L410 Rear Panel



Label	Description	Label	Description
1	OBR	8	DC jack
2	LAN PORT	9	VGA
3	FM Port	10	LINE OUT
4	TV Port	11	DVII port
5	AV IN	12	LINE IN
6	TV OUT	13	MIC
7	Spdif Port	14	USB PORTS

Hardware Specifications and Configurations

Processor

Item	Specification
Type	AMD AM2 socket, Sempron/35W, Athlon64/45W, Athlon64x2 / 65W
Socket	AMD AM2 socket
Minimum operating speed	0 MHz (If Stop CPU Clock in Sleep State in BIOS Setup is set to Enabled.)

BIOS

Item	Specification
BIOS code programmer	SST 49LF004B FWH
BIOS version	V6.0
BIOS ROM type	SPI Flash
BIOS ROM size	4Mb
Support protocol	PXE 2.1 DMI V.2.0(s)or 2.1 SMBIOS 2.5 ACPI v3.0b
Device Boot Support	- 1st priority: SATA HDD - 2nd priority: CD-ROM - 3rd priority: LAN - 4th priority: USB device
Support to LS-120 drive	YES
Support to BIOS boot block feature	YES

BIOS Hotkey List

Hotkey	Function	Description
Del	Enter BIOS Setup Utility	Press while the system is booting to enter BIOS Setup Utility.

Main Board Major Chips

Item	Specification
North Bridge	RS690 (A12)
South Bridge	SB600 (A21)
APG controller	RS690 (A12)
Super I/O controller	ITE8718
Audio controller	Realtek ALC888-GR,colay with ALC888S(default)
LAN controller	LAN-RTL 8111C
HDD controller	ITE8718
Keyboard controller	ITE8718

Memory Combinations

Slot	Memory	Total Memory
Slot 1	256MB, 512MB, 1GB	256MB~1GB
Slot 2	256MB, 512MB, 1GB	256MB~1GB
Maximum System Memory Supported		256MB~2GB

System Memory

Item	Specification
Memory slot number	2 slot
Support Memory size per socket	256MB, 512MB, 1GB
Support memory type	DDR2
Support memory interface	DDR2 667/533
Support memory voltage	1.8V
Support to parity check feature	Yes
Support to error correction code (ECC) feature	No
Memory module combinations	You can install memory modules in any combination as long as they match the above specifications.

Audio Interface

Item	Specification
Audio controller	ICH7DH
Audio controller type	Realtek ALC888S
Audio channel	codec 7.1
Audio function control	Enable/disable by BIOS Setup
Mono or stereo	Stereo
Compatibility	Sound Blaster Pro/16 compatible Mixed digital and analog high performance chip Enhanced stereo full duplex operation High performance audio accelerator and AC'97 support Full native DOS games compatibility Virtual FM enhances audio experience through real-time FM-to-Wavetable conversionMPU-401 (UART mode) interface for Wavetable synthesizers and MIDI devices Integrated dual game port Meets AC'97and WHQL specifications
Music synthesizer	Yes, internal FM synthesizer
Sampling rate	48 KHz (max.)
MPU-401 UART support	Yes
Microphone jack	Supported
Headphone jack	Supported

SATA Interface

Item	Specification
SATA controller	Super I/O ITE 8718
SATA controller resident bus	PCI bus
Number of SATA channel	SATA X 1
Support bootable CD-ROM	YES

USB Port

Item	Specification
Universal HCI	USB 2.0/1.1
USB Class	Support legacy keyboard for legacy mode
USB Connectors Quantity	Rear connectors: 4 On-board header: 2 (4 USB ports)

Environmental Requirements

Item	Specification
Temperature	
Operating	+5°C ~ +35°C
Non-operating	-20 ~ +60°C (Storage package)
Humidity	
Operating	15% to 80% RH
Non-operating	10% to 90% RH
Vibration	
Operating (unpacked)	5 ~ 500 Hz: 2.20g RMS random, 10 minutes per axis in all 3 axes 5 ~500 Hz: 1.09g RMS random, 1 hour per axis in all 3 axes

AC Adapter

- Universal AC adapter, 90~264V AC, 47~63HZ
- 3-pin 135W with 19V DC output

Power Management Function (ACPI support function)

Power & Power Management

Two power management modes are supported in BIOS: Advanced Configuration and Power Interface (ACPI 2.0) or Advanced Power Management (APM 1.2).

Less than 30W power consumption in S1 sleep state (system configuration dependant)

Less than 4W consumption in ACPI S3 (Suspend to RAM) sleep state (configuration dependant)

Supports single power/sleep button user model

OS can turn system off (Soft Off feature)

Suspend all devices that support power down modes

Support ACPI S0, S1, S3, & S5 System States

Wake-Up Event	From ACPI State	Comments
Power button	S1, S3, *S4, S5	-BIOS setting
RTC alarm	S1, S3, *S4, S5	-BIOS setting
LAN	S1, S3, *S4, S5	-BIOS setting
USB	S1, S3	-BIOS setting
Remote Control	S1, S3, *S4, S5	-BIOS setting

*S4 implies OS support only (Win2000, WinXP)

System and Power Management

Power Management

- Fully supports ACPI states S1,S3,S4,and S5
- The Chip Power Management Support state can be achieved by software control bits
- Hardware controlled intelligent clock gate
- Support for Cool`n`Quiet via FID/VID change
- Support for PowerNow
- Support ATI PowerOnDemand
- Power On Suspend (POS) or ACPI S1 support
- Suspend to RAM (STR) or ACPI S3 support
- Suspend to Disk (STD) or ACPI S4/S5 support
- Supports C2, C3, and C4 states
- Provides clock generator and CPU STPCLK# control
- Supports dynamic lane reduction for the PCI-E interface

- System Clocks
- Memory DDR2: 667/533
- PCI 33 MHz
- PCI Express 100 MHz
- USB 48 MHz
- SIO 48 MHz
- RTC 32.768 KHz
- LAN 25MHz
- Audio Codec 24MHz

System Utilities

The manufacturer or the dealer already configures most systems. There is no need to run Setup when starting the computer unless you get a Run Setup message.

The Setup program loads configuration values into the battery-backed nonvolatile memory called CMOS RAM.
This memory area is not part of the system RAM.

NOTE: If you repeatedly receive Run Setup messages, the battery may be bad/flat. In this case, the system cannot retain configuration values in CMOS.

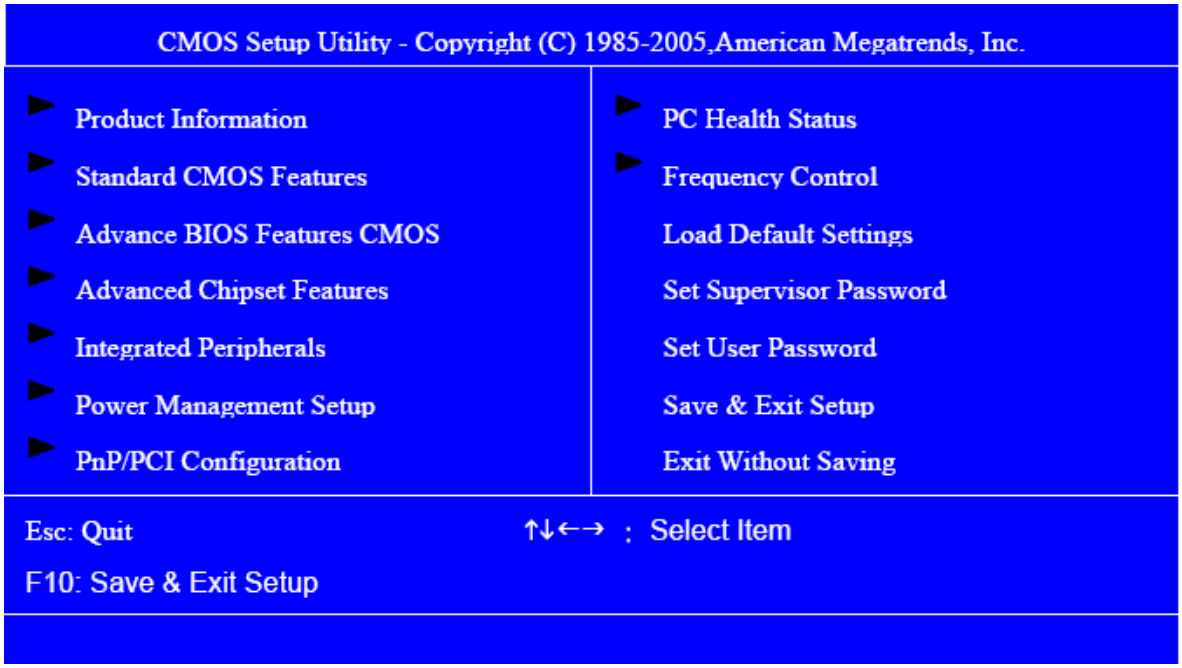
Before you run Setup, make sure that you have saved all open files. The system reboots immediately after you exit Setup.

Entering Setup

Power on the computer and the system will start POST (Power On Self Test) process. When the message of "Press DEL to enter SETUP" appears on the screen, press the key of [Delete] to enter the setup menu.

NOTE: If the message disappears before you respond and you still wish to enter Setup, restart the system by turning it OFF and On. You may also restart the system by simultaneously pressing [Ctrl+ Alt+ Delete].

The Setup Utility main menu then appears:

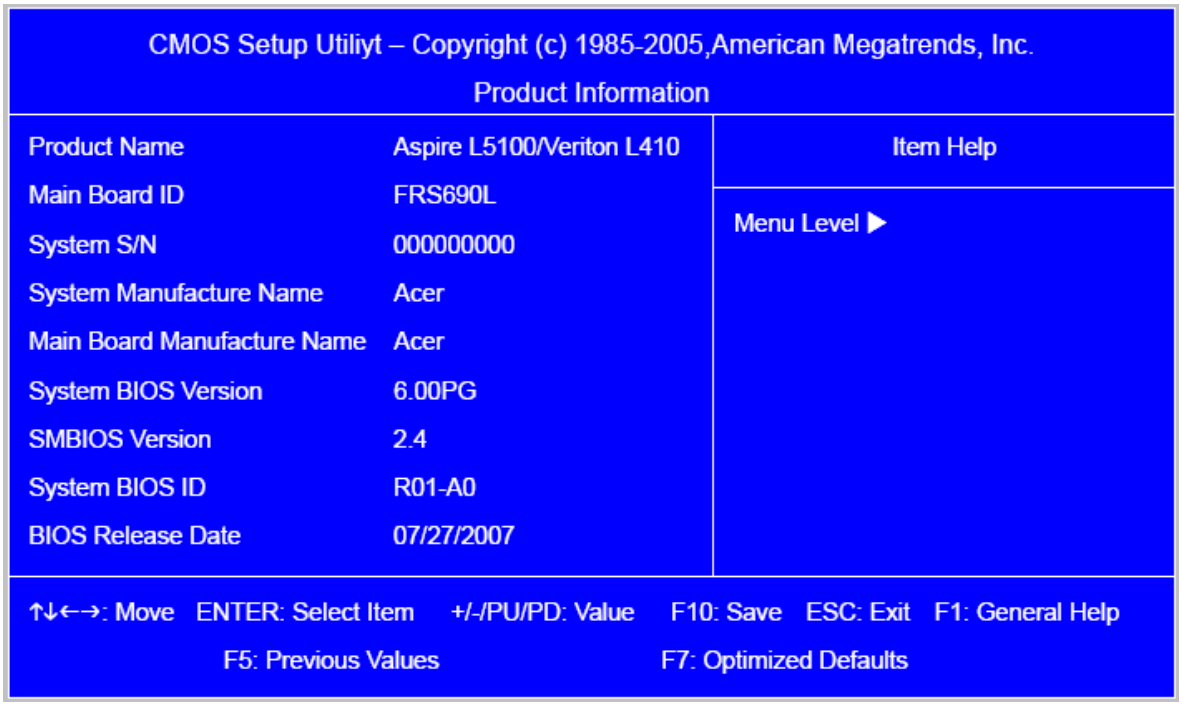


The items in the main menu are explained below:

Parameter	Description
Production Information	This page shows the relevant information of the main board
Standard CMOS Features	This setup page includes all the items in standard compatible BIOS
Advance BIOS Features	This setup page includes all the items of Award special enhanced features
Advance Chipset Features	This setup page includes all advanced chipset features
Integrated Peripherals	This setup page includes all onboard peripherals
Power Management Setup	This setup page includes all the items of Green function features
PnP/PCI Configuration	This setup page includes all configurations of PCI & PnP ISA resources
PC Health Status	This setup page is the System auto detect Temperature, voltage, and fan speed
Load Optimized Defaults	Load Optimized Settings Default Settings indicates the value of the system parameters which the system would be in best performance configuration
Set Supervisor Password	Change, set or disable password. It allows you to limit access to the system and Setup, or just to Setup
Set User Password	Change, set or disable password. It allows you to limit access to the System
Save & Exit Setup	Save CMOS value settings to CMOS and exit setup
Exit Without Saving	Abandon all CMOS value changes and exit setup

Product Information

The screen below appears if you select Product Information from the main menu: The Product Information menu contains general data about the system, such as the product name, serial number, BIOS version, etc. This information is necessary for troubleshooting (maybe required when asking for technical support).

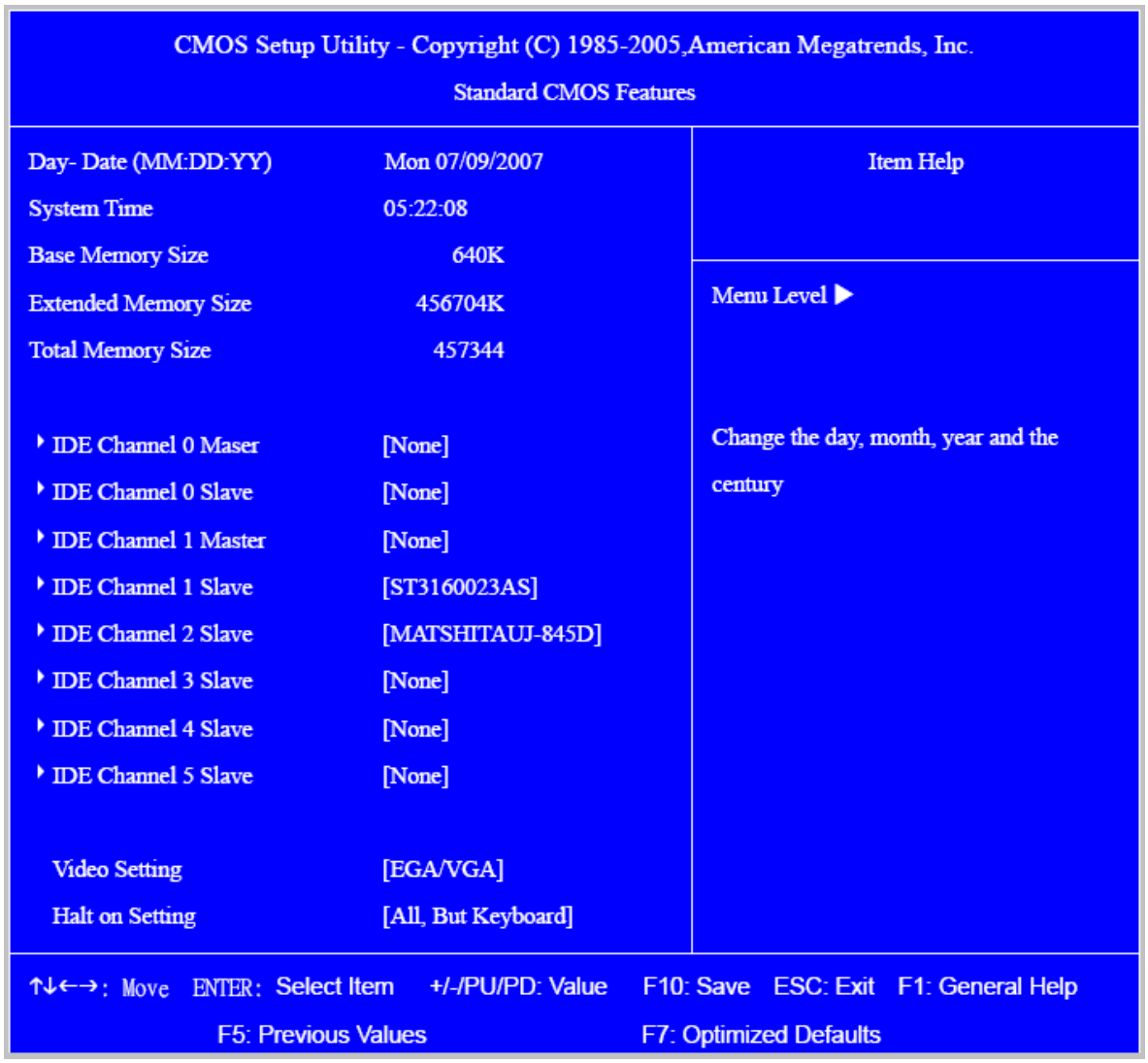


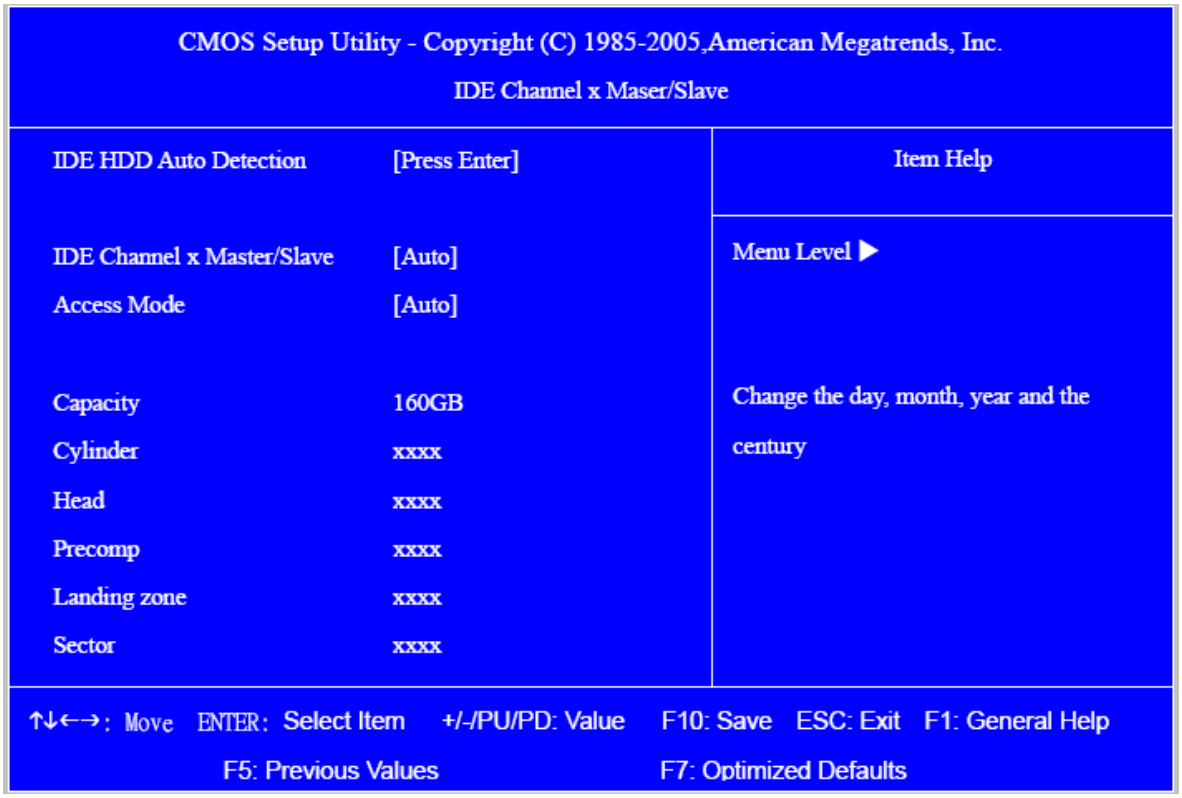
The following table describes the parameters found in this menu:

Parameter	Description
Production Name	This item lists the product name
System S/N	This item lists the system serial number
Main Board ID	This item lists the main board ID
Main Board S/N	This item lists the main board serial number
System BIOS Version	This item lists the system BIOS version
SMBIOS Version	This item lists the system SMBIOS version
System BIOS ID	This item lists the system BIOS ID
BIOS Release Date	This item lists the BIOS release date

Standard CMOS Setup

Select standard CMOS features from the main menu to configure some basic parameters in your system the following screen shows the standard CMOS features menu:


CMOS Setup Utility - Copyright (C) 1985-2005,American Megatrends, Inc.
Standard CMOS Features
Day- Date (MM:DD:YY) Mon 07/09/2007
System Time 05:22:08
Base Memory Size 640K
Extended Memory Size 456704K
Total Memory Size 457344
IDE Channel 0 Maser [None]
IDE Channel 0 Slave [None]
IDE Channel 1 Master [None]
IDE Channel 1 Slave [ST3160023AS]
IDE Channel 2 Slave [MATSHITAUJ-845D]
IDE Channel 3 Slave [None]
IDE Channel 4 Slave [None]
IDE Channel 5 Slave [None]
Video Setting [EGA/VGA]
Halt on Setting [All, But Keyboard]
Item Help
Menu Level ▶
Change the day, month, year and the century
↑↓←→: Move ENTER: Select Item +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults



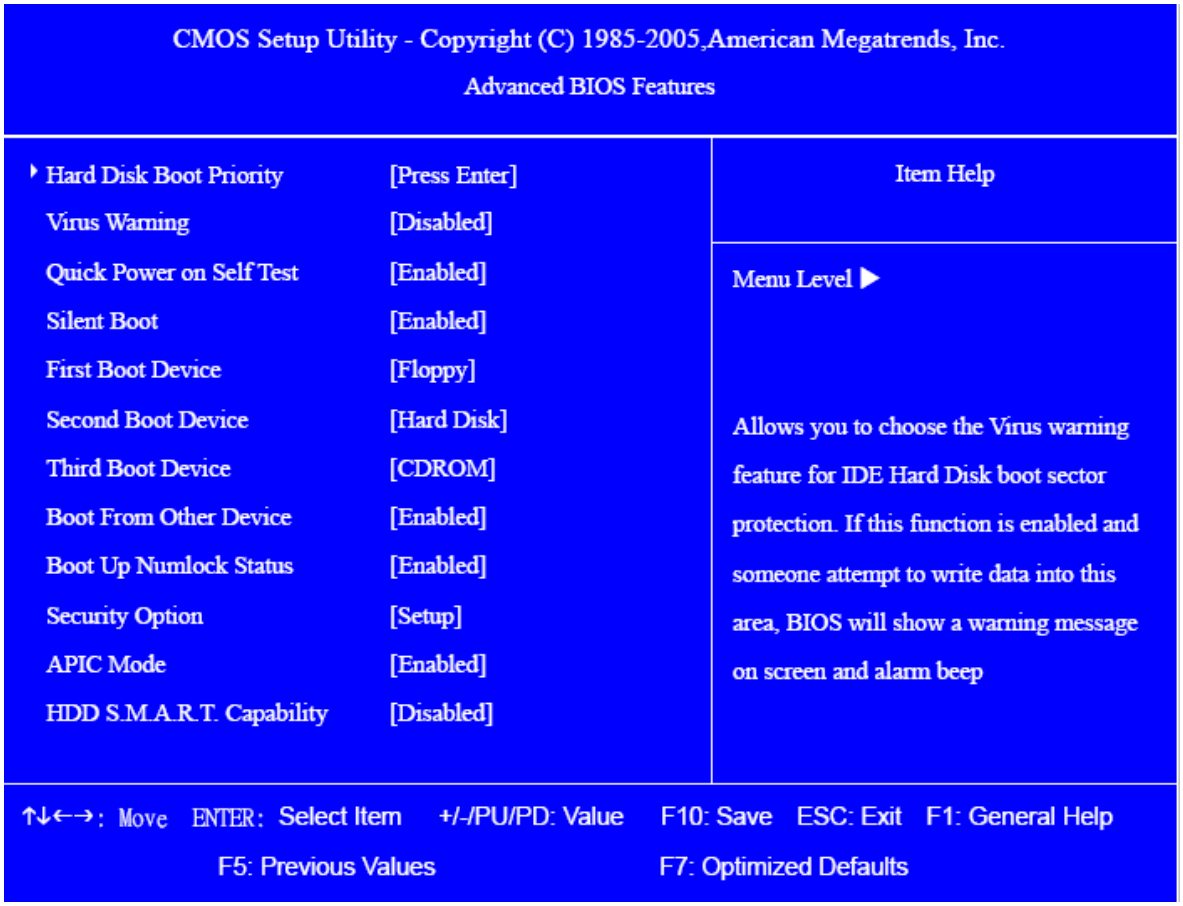
The following table describes the parameters found in this menu.

Parameter	Description	Options
Date	To set the date following the weekday-month-date-year format	Week: From [Sun.] to [Sat.]. determined by BIOS and is display only Day: from [1] to [31] (or the maximum allowed in the month. Year: from 1999 to 2099
System Time	To set the time following the hour-minute-second format	The items format is [hour] [minute][second]. The time is calculated base on the 24-hour timer clock.
Base Memory Size	640 K for system base memory	

Parameter	Description	Options
Extended Memory Size	The BIOS determines how much extended memory is present during the POST. This is the amount of memory located above 1MB in the memory address map of CPU	
Total Memory Size	Total memory size for the system	
IDE Channel X Master IDE Channel X Slave	Hard disk drive connected to channel X master or slave port. To enter the IDE Master or Slave setup, press [Enter]. The IDE CD-ROM is always automatically detected	[Enter] for detection options [Auto]: BIOS automatically detects IDE devices during POST (default) [None]: No IDE devices are used and the system will skip the automatic detection step and allow for faster system start up [Manual]: Manually input the correct settings [Access Mode]: To set the access mode for the hard drive. The four options are: CHS/LBA/Large/Auto (default: Auto) Cylinder: Number of cylinders Head: Number of heads Precomp: Write precomp Landing Zone: Landing Zone Sector: Number of sectors
Video Setting	Select the type of primary video subsystem	
Halt on	This item enables use to select the situation if the BIOS stops the POST process and the notification	All Errors No Errors All, But Keyboard All, But Diskette All, But Disk/Key

Advanced Setup

The following screen shows the Advanced Setup:

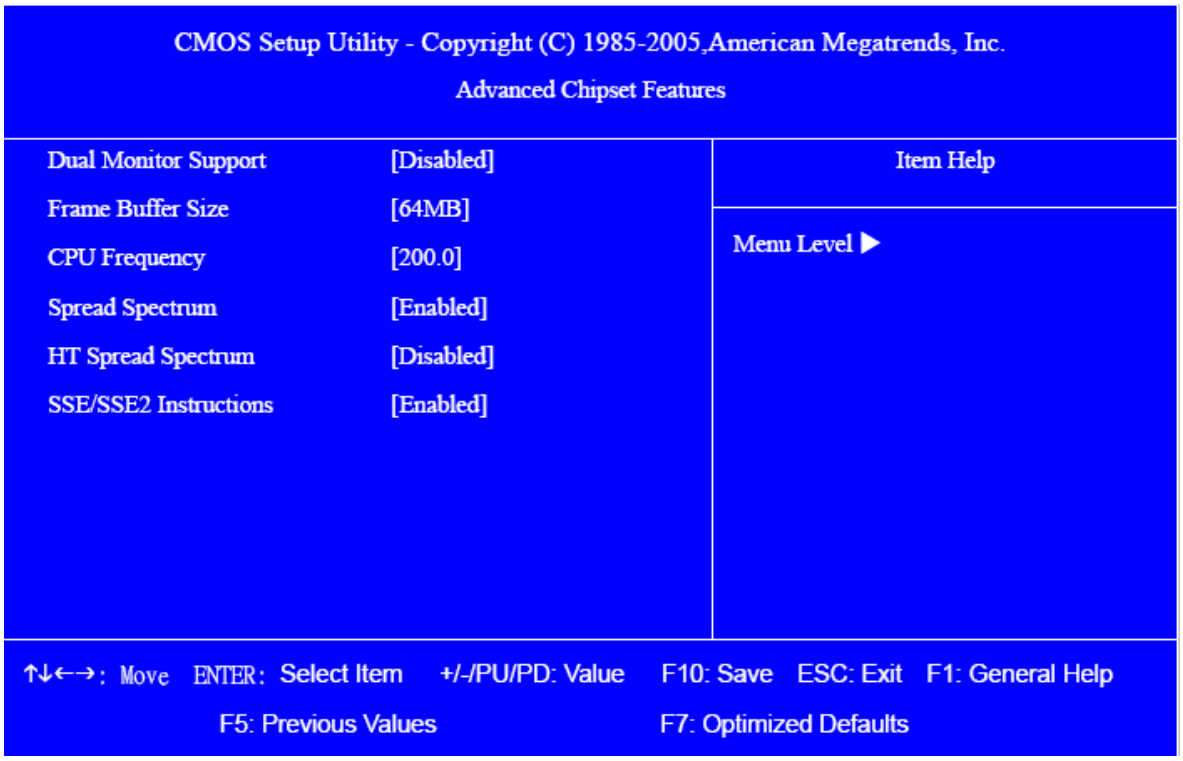

CMOS Setup Utility - Copyright (C) 1985-2005,American Megatrends, Inc.
Advanced BIOS Features
Hard Disk Boot Priority [Press Enter]
Virus Warning [Disabled]
Quick Power on Self Test [Enabled]
Silent Boot [Enabled]
First Boot Device [Floppy]
Second Boot Device [Hard Disk]
Third Boot Device [CDROM]
Boot From Other Device [Enabled]
Boot Up Numlock Status [Enabled]
Security Option [Setup]
APIC Mode [Enabled]
HDD S.M.A.R.T. Capability [Disabled]
Item Help
Menu Level ▶
Allows you to choose the Virus warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep
↑↓←→: Move ENTER: Select Item +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults

The following table describes the parameters found in this menu.

Parameter	Description	Options
Hard Disk Boot Priority	This features displays the Hard Disk Boot Device priority from high to low and allows users to set the Hard Disk Boot Device Priority. Press [Enter] to enter the setting screen. Use wory to select a device, then press <+> to move it up, or <-> to move it down the list. Press <ESC> to exit.	[Press Enter]

Parameter	Description	Options
Virus Warning	This feature allows you to enable the VIRUS warning function for IDE Hard Disk boot sector protection. If this function is enabled and there is someone attempts to write data to this area, BIOS will show a warning message on screen and the alarm will beep.	[Enabled], [Disabled]
Quick Power On Self Test	This feature allows the system to skip certain tests while booting. When this function is enabled, it will decrease the time needed to boot the system, which means to quick power on self-test function.	[Enabled], [Disabled]
Silent Boot	This feature allows you to enable or disable if the screen logo to display or not during POST	[Enabled], [Disabled]
First/Second/ Third Boot Device	The item allows you to see the sequence of boot device where BIOS attempts to load the disk operation system.	[Floppy], [LS120], [Hard Disk], [CD-ROM], [ZIP], [USB-FDD], [USB-ZIP], [USB-CDROM], [USB-HDD], [LAN], [Disabled]
Boot From Other Devices	This item allows user to enable or disable to boot from other device	[Enabled], [Disabled]
Boot Up NumLock Status	This item allows user to enable or disable to set keyboard is number keys or arrow keys	[Enabled], [Disabled]
Security Option	This category allows you to limit access to the system and Setup, or just to Setup.	[System], [Setup]
APIC Mode	This option is used to set up enable or disable the APCI function	[Enabled], [Disabled]
HDD S.M.A.R.T Capability	S.M.A.R.T. which allows your hard disk to report any read/write errors and issue a warning when LDCM installed	[Enabled], [Disabled]

Advanced Chipset Setup

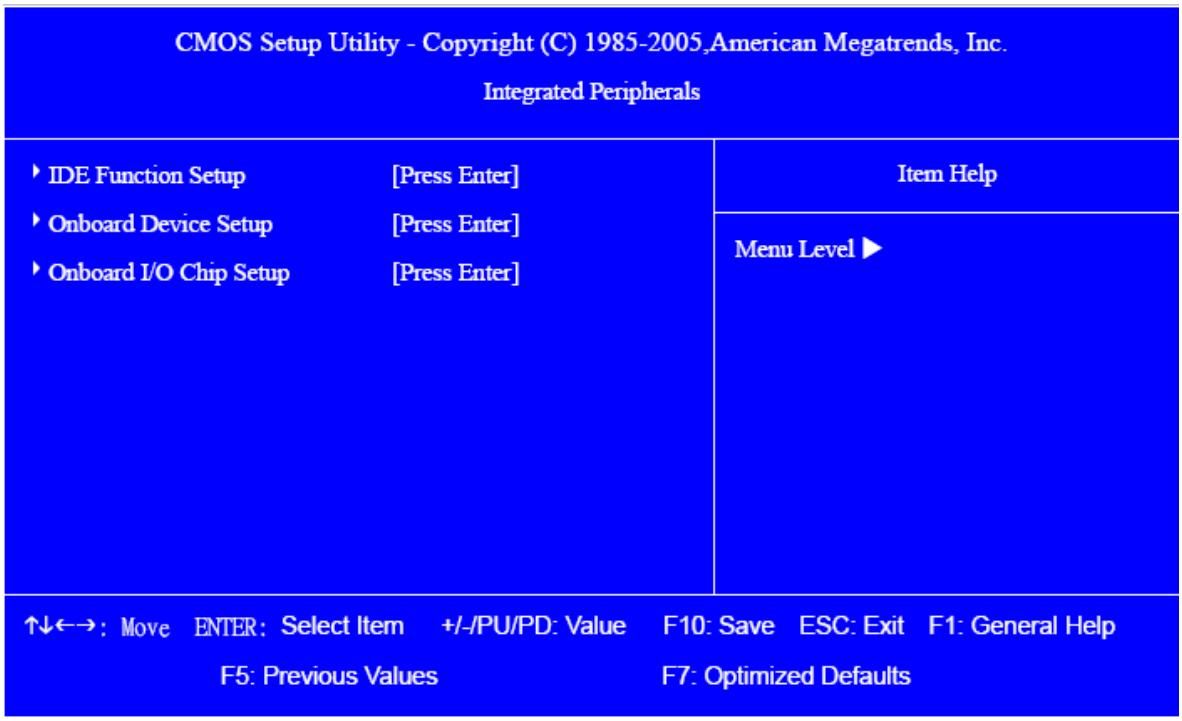

CMOS Setup Utility - Copyright (C) 1985-2005,American Megatrends, Inc.
Advanced Chipset Features
Dual Monitor Support [Disabled]
Frame Buffer Size [64MB]
CPU Frequency [200.0]
Spread Spectrum [Enabled]
HT Spread Spectrum [Disabled]
SSE/SSE2 Instructions [Enabled]
Item Help
Menu Level ▶
↑↓←→: Move ENTER: Select Item +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults

The following table describes the parameters found in this menu.

Parameter	Description	Options
Dual Monitor Support	This category allows you to enable or disable dual monitor support function	[Enabled], [Disabled]
Frame Buffer Size	This field displays how much frame buffer size of the system.	
CPU Frequency	This field allows you to determine CPU frequency of the system.	

Parameter	Description	Options
Spread Spectrum	When the system clock generator pulses, the extreme values of the pulse generate excess EMI. Enabling pulse spectrum spread modulation changes the extreme values from spikes to flat curves, thus reducing EMI. This benefit may in some case be outweighed by problems with timing-critical devices, such as a clock-sensitive SCSI device.	[Enabled], [Disabled]
HT Spread Spectrum	Enables or Disables HT Spread Spectrum. HT is Hyper Transport between CPU and North Bridge.	[Enabled], [Disabled]
SSE/SSE2 Instructions	This feature controls the availability of the processor's SSE and SSE2 instruction sets. When enabled, the processor's SSE and SSE2 instruction sets are enabled. Software applications can make use of those instructions to better process large amounts of data quickly. When disabled, the processor's SSE and SSE2 instruction sets are disabled. Software applications will not be able to use those instructions to process multiple data elements simultaneously. However, the processor's MMX instruction set will still be available for use. It is highly recommended that you leave this BIOS feature at the default setting.	[Enabled], [Disabled]

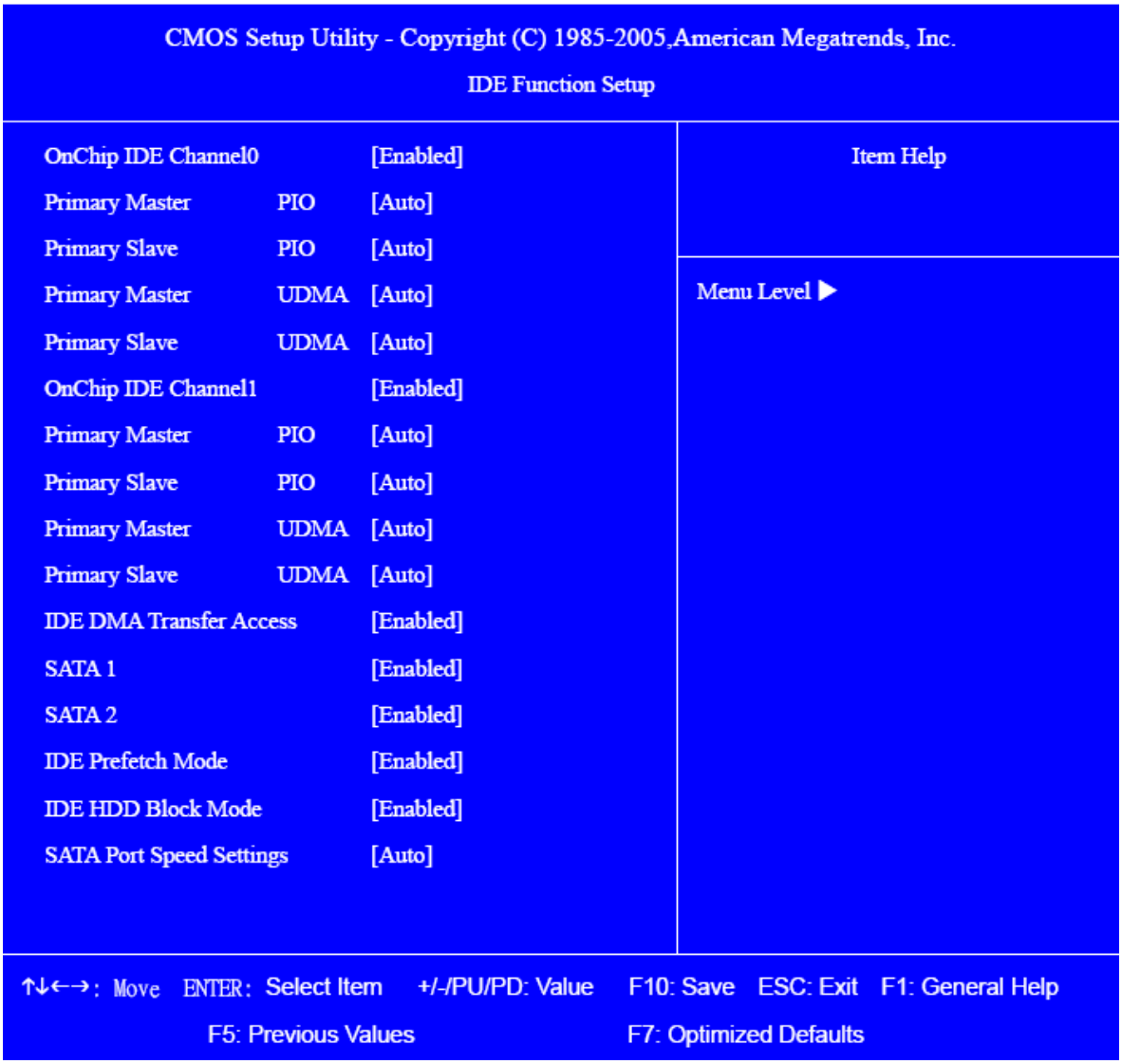
Integrated Peripherals


CMOS Setup Utility - Copyright (C) 1985-2005,American Megatrends, Inc.
Integrated Peripherals
IDE Function Setup [Press Enter]
Onboard Device Setup [Press Enter]
Onboard I/O Chip Setup [Press Enter]
Item Help
Menu Level ▶
↑↓←→: Move ENTER: Select Item +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults

The following table describes the parameters found in this menu.

Parameter	Description	Options
IDE Function Setup	This page allows you to setup IDE function	[Press Enter]
Onboard Device Setup	This page allows you to setup onboard devices.	[Press Enter]
Onboard I/O Chip Setup	This page allows you to setup onboard I/O chip.	[Press Enter]

Integrated Peripherals-IDE Function Setup

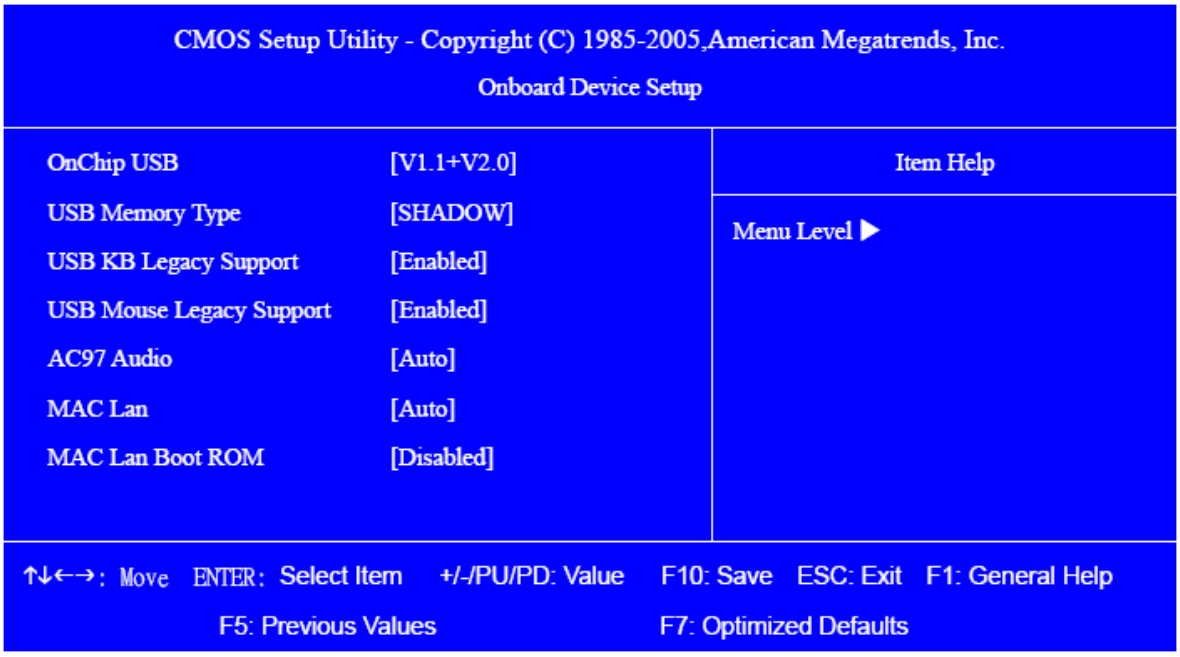

CMOS Setup Utility - Copyright (C) 1985-2005,American Megatrends, Inc.
IDE Function Setup
OnChip IDE Channel0 [Enabled]
Primary Master PIO [Auto]
Primary Slave PIO [Auto]
Primary Master UDMA [Auto]
Primary Slave UDMA [Auto]
OnChip IDE Channel1 [Enabled]
Primary Master PIO [Auto]
Primary Slave PIO [Auto]
Primary Master UDMA [Auto]
Primary Slave UDMA [Auto]
IDE DMA Transfer Access [Enabled]
SATA 1 [Enabled]
SATA 2 [Enabled]
IDE Prefetch Mode [Enabled]
IDE HDD Block Mode [Enabled]
SATA Port Speed Settings [Auto]
Item Help
Menu Level ▶
↑↓←→: Move ENTER: Select Item +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults

The following table describes the parameters found in this menu.

Parameter	Description	Options
IDE Primary/Secondary Master/Slave PIO	The four IDE PIO fields let you set a PIO mode (0-4) for each of the four IDE devices that the onboard IDE interface supports. Modes 0 through 4 provide increased performance. In Auto mode, the system automatically determines the best mode for each device.	
On-Chip IDE First/Second Channel	The Chipset contains a PCI IDE interface with support for two IDE channels. Select Enabled to activate the first and/or second IDE interface. Select Disabled to deactivate an interface, if you install a primary and/or secondary add-in IDE interface.	[Enabled], [Disabled]
IDE Primary/Secondary Master/Slave UDMA	UDMA (Ultra DMA) is a DMA data transfer protocol that utilized ATA transfer protocol that utilizes ATA commands and the ATA bus to allow DMA commands to transfer data ata maximum burst rate of 33 MB/s. When you select Auto in the four IDE UDMA fields (for each of up to four IDE devices that the internal PCI IDE interface supports), the system automatically determines the optimal data transfer rate for each IDE device.	
IDE DMA Transfer Access	This category allows you to enable or disable DMA transfer access of IDE device (or IDE HDD)	[Enabled], [Disabled]
SATA 1/2	Enable/Disable Serial-ATA 1 or Serial-ATA-2. SATA 1 control port 1 and 3, SATA 2 control port 2 and 4.	
IDE Prefetch Mode	The onboard IDE drive interfaces supports IDE prefetching, for faster drive accesses. If you install a primary and/or secondary add-in IDE interface, set this field to Disabled if the interface does not support prefetching.	

Parameter	Description	Options
IDE HDD Block Mode	Block mode is also called block transfer, multiple commands, or multiple sectors read/write. If your IDE hard drive supports block mode(most new drives do), select Enabled for automatic detection of the optimal number of block read/write per sector the drive can support.	[Enabled], [Disabled]
SATA PORT Speed Settings	This category allows you to determine the speed of SATA port.	[Auto],

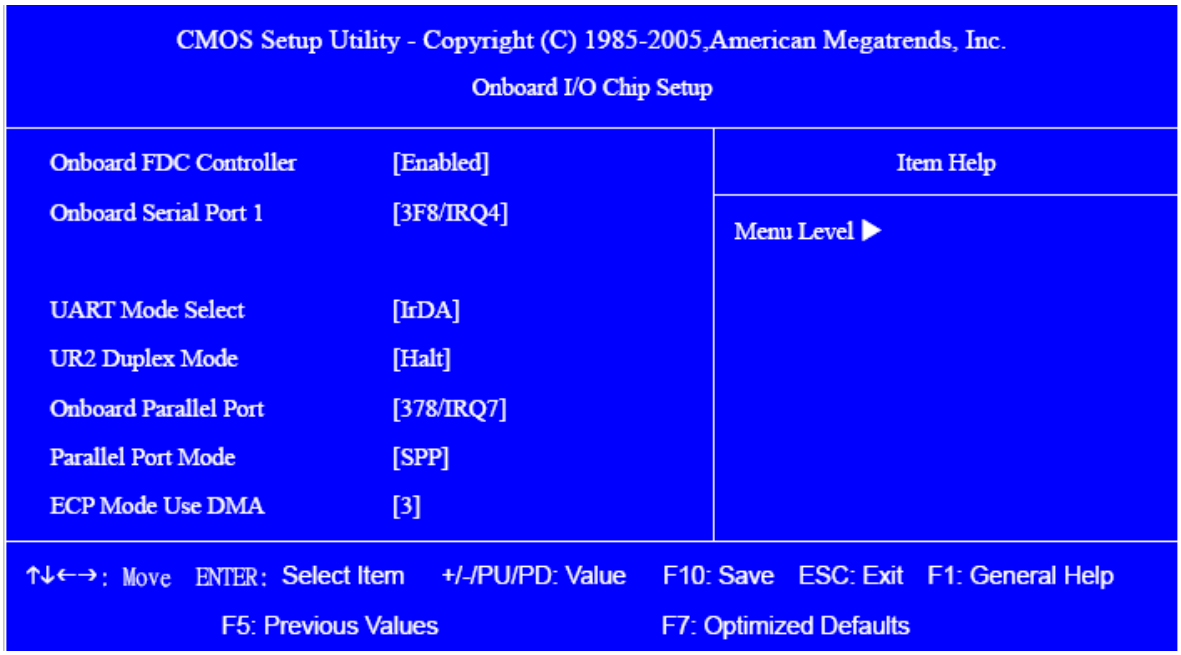
Integrated Peripherals-Onboard Device Setup


CMOS Setup Utility - Copyright (C) 1985-2005,American Megatrends, Inc.
Onboard Device Setup
OnChip USB [V1.1+V2.0]
USB Memory Type [SHADOW]
USB KB Legacy Support [Enabled]
USB Mouse Legacy Support [Enabled]
AC97 Audio [Auto]
MAC Lan [Auto]
MAC Lan Boot ROM [Disabled]
Item Help
Menu Level ▶
↑↓←→: Move ENTER: Select Item +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults

The following table describes the parameters found in this menu.

Parameter	Description	Options
On Chip USB	This field allows you to determine on chip USB type or disable on chip USB.	[V1.1+V2.0], [V1.1]
UDB Memory Type	Use this item to change the type of USB memory to shadow or Base memory.	[Shadow], [Base Memory]
USB KB Legacy Support	This field enables or disables USB keyboard support function.	[Enabled], [Disabled]
USB Mouse Support	This field enables or disables USB mouse support function.	[Enabled], [Disabled]
AC 97 Audio	Change the on board Audio to auto or disabled	[Auto], [Disable]
MAC LAN	Enables or disables onboard LAN controller, If you wish to use the motherboard's onboard LAN controller, you should certainly enable this BIOS feature. You can disable this feature if you do not want to use the motherboard's onboard LAN controller. This may free up an IRQ for other devices to use. This is useful if your motherboard does not support APIC and have many devices that can not share IR Qs.	[Enabled], [Disabled]
MAC LAN Boot ROM	Enables or disables on board LAN boot ROM.	[Enabled], [Disabled]

Integrated Peripherals -Onboard I/O Chip Setup

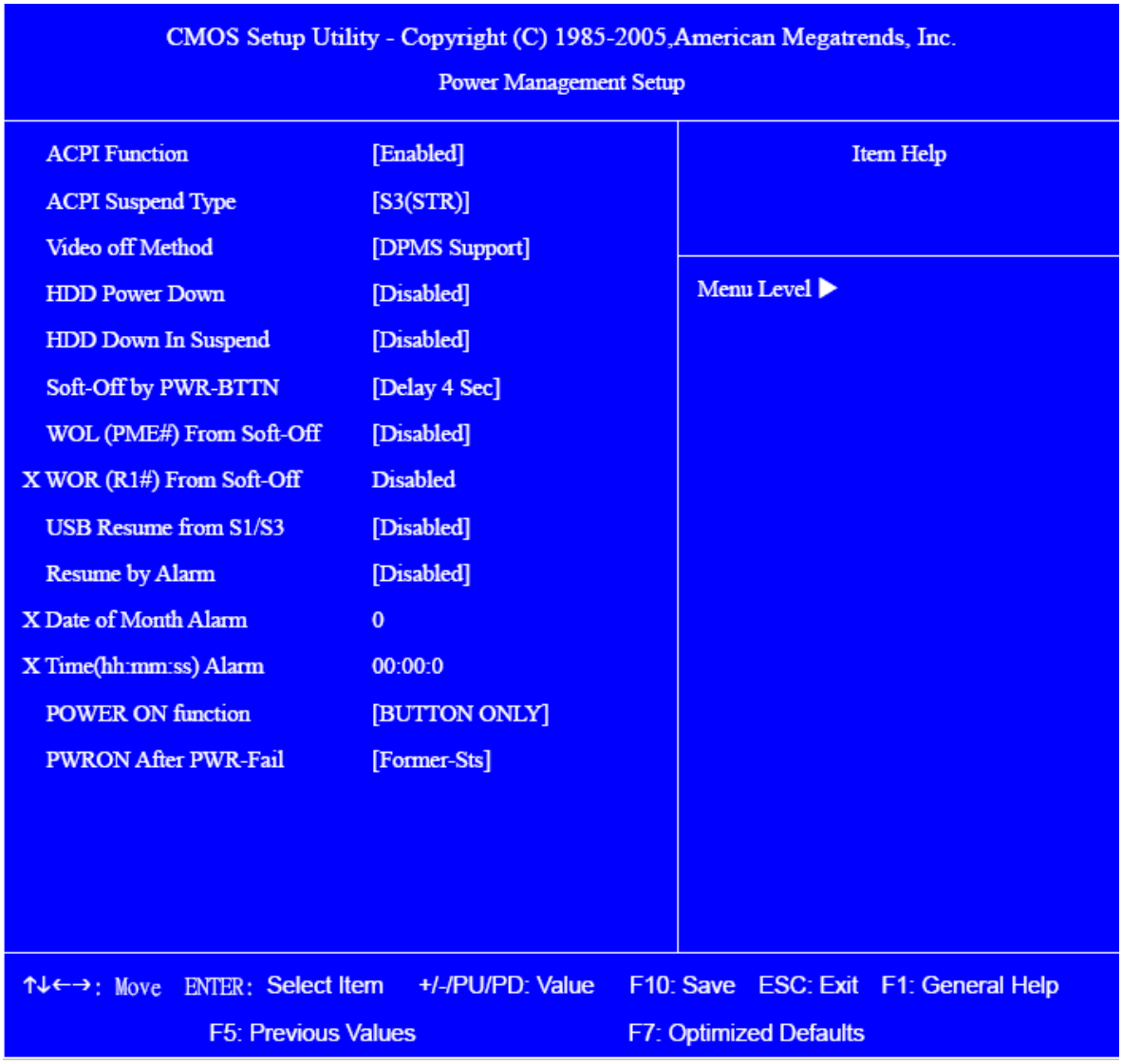

CMOS Setup Utility - Copyright (C) 1985-2005,American Megatrends, Inc.
Onboard I/O Chip Setup
Onboard FDC Controller [Enabled]
Onboard Serial Port 1 [3F8/IRQ4]
UART Mode Select [IrDA]
UR2 Duplex Mode [Halt]
Onboard Parallel Port [378/IRQ7]
Parallel Port Mode [SPP]
ECP Mode Use DMA [3]
Item Help
Menu Level ▶
↑↓←→: Move ENTER: Select Item +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults

The following table describes the parameters found in this menu.

Parameter	Description	Options
Onboard FDC Controller	Select Enabled if your system has a floppy disk controller (FDC) installed on the system board and you wish to use it. If you install an add-in FDC or the system has no floppy drive, select Disabled in this field.	[Enabled]. [Disabled]
Onboard Serial Port 1	Select a logical COM port name and matching address for the serial port. Select an address and corresponding interrupt for the serial port.	
UR2 Duplex Mode	In an infrared port mode, this field appears. Full-duplex mode permits simultaneous tow-direction transmission. Half-duplex mode permits transmission in one direction only at a time. Select the value required by the IR device connected to the IR port.	
Onboard Parallel Port	Select a logical LPI port address and corresponding interrupt for the physical parallel port.	[xxx+IRQx]
Parallel Port Mode	Select an operating mode for the onboard parallel (printer) port.	[Normal], [EPP], [EPP], [EPP+ECP]
ECP Mode used DMA	This item allows users to manually set the DMA channel for ECP mode	

Power Management

The Power Management menu lets you configure your system to most effectively save energy while operating in a manner consistent with your own style of computer use. The following screen shows the Power Management parameters and their default settings:

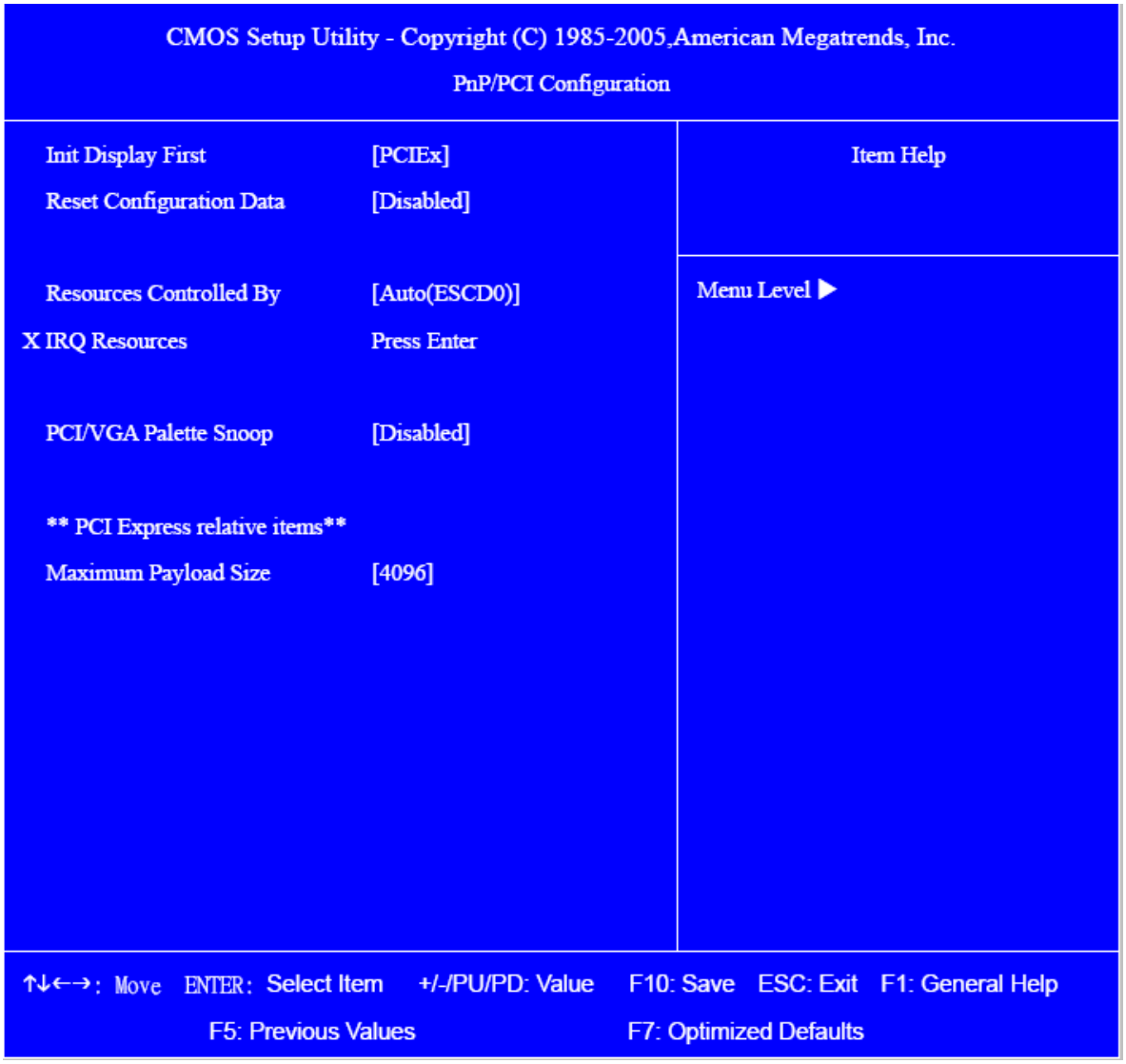

CMOS Setup Utility - Copyright (C) 1985-2005,American Megatrends, Inc.
Power Management Setup
ACPI Function [Enabled]
ACPI Suspend Type [S3(STR)]
Video off Method [DPMS Support]
HDD Power Down [Disabled]
HDD Down In Suspend [Disabled]
Soft-Off by PWR-BTTN [Delay 4 Sec]
WOL (PME#) From Soft-Off [Disabled]
X WOR (R1#) From Soft-Off Disabled
USB Resume from S1/S3 [Disabled]
Resume by Alarm [Disabled]
X Date of Month Alarm 0
X Time(hh:mm:ss) Alarm 00:00:0
POWER ON function [BUTTON ONLY]
PWRON After PWR-Fail [Former-Sts]
Item Help
Menu Level ▶
↑↓←→: Move ENTER: Select Item +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults

The following table describes the parameters found in this menu.

Parameter	Description	Options
ACPI Function	This item allows you to enable or disable the ACPI function	[Enabled], [Disabled]
ACPI Suspend Type	This item specifies the power saving modes for ACPI function. S1 (POSP: The S1 sleep mode is a low power state.. In this state, no system context (SPU or chipset) is lost and hardware maintains all system context/ S3 (STR): The S3 sleep mode is s power-down state in which power is supplied only to essential components such as main memory and wake-capable devices and all system context is saved to main memory. The information stored in memory will be used to restore the PC to the previous state when an wake-up event occurs.	[S1 (POS)]: Set ACPI suspend type to S1/POS (Power On Suspend). [S3 (STR)]: Set ACPI suspend type to S3/STR
HDD Power Down	The setting controls how long a hard disk drive must be left idle before it spins downs.	[Disabled], [Standby], [Suspend]
HDD Down In Suspend	Enables or Disables the functionality of HDD down in suspend	[Enabled], [Disabled]

Parameter	Description	Options
Soft-off by PWR/BTTN	When Enabled, turning the system off with the on/off button places the system in a very low-power-usage state, with only enough circuitry receiving power to detect power button activity or Resume by Ring activity.	[Instant-off]: Press down button then power off instantly [Delay 4 Sec.]: Press Power button 3 sec. to power off. Enter suspend if button is pressed less than 4 sec.
WOL (PME#) From Soft-Off	This category enables or disables wake-on-Lan from soft-off	[Enabled], [Disabled]
Resume by Alarm	You can set “Resume by Alarm” item to enabled and key in Date/Time to power on system.	[Disabled] [Enabled]: Enable alarm function to Power On system. If RTC Alarm Lead to Power On is Enabled, Date(of Month) Alarm: Everyday, 1~31 Time(hh:mm:ss) Alarm: (0.~23):(0-59):(0~59)
POWER ON Function	Select the method to power on the system	[Button Only], [Keyboard 98], [Hot Key], [Mouse Left], [Mouse Right]
POWER After PWR-Fail	This field allows you to determine the power status to on/off or former-sts after the system	[FORMER-Sts], [On], [Off]

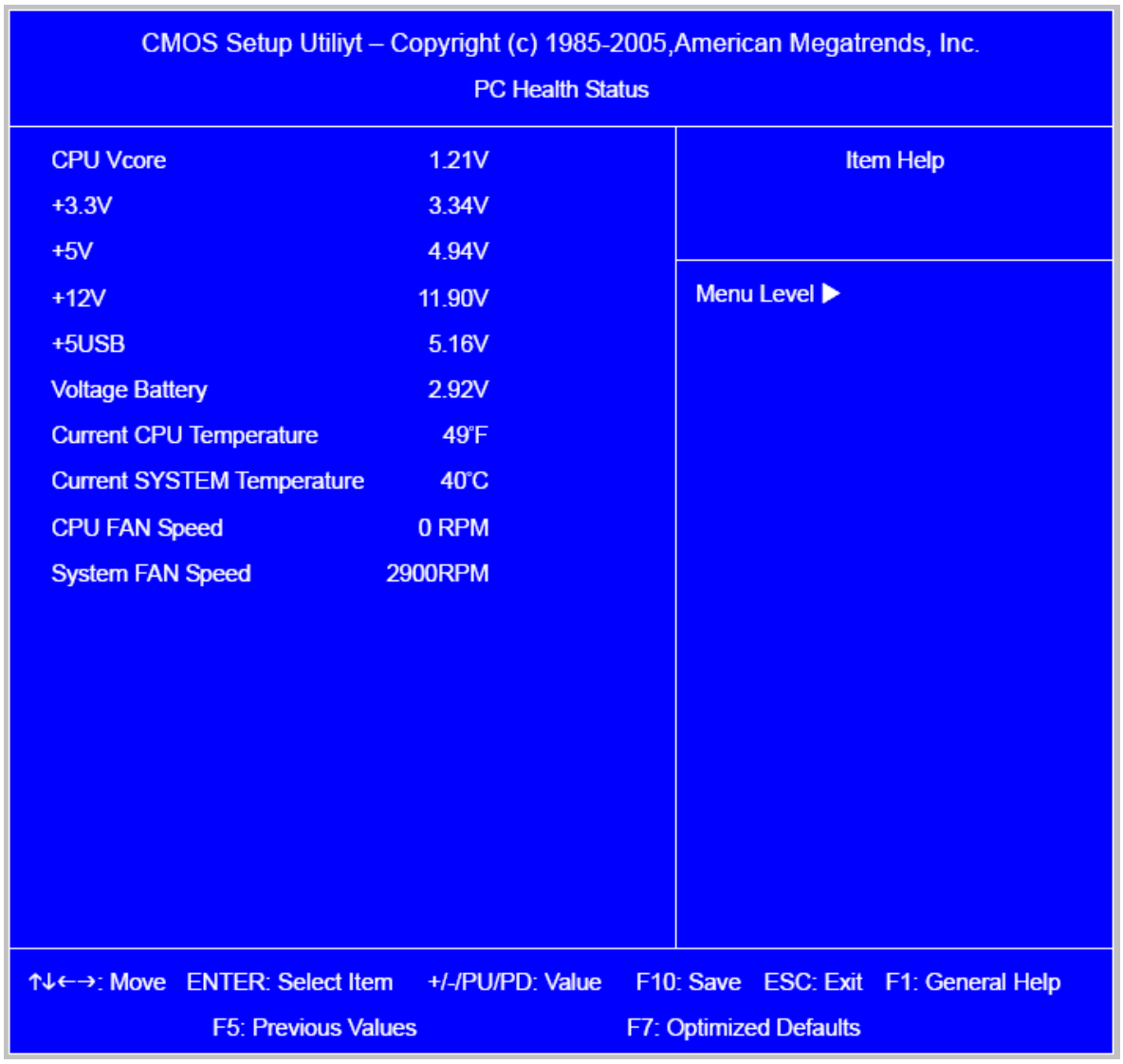
PCI/PnP Setup



The following table describes the parameters found in this menu.

Parameter	Description	Options
Init Display First	Initialize the AGP video display before initializing any other display device on the system. Thus the AGP display becomes the primary display.	
Reset Configuration Data	Normally, you leave this field Disabled. Select Enabled to reset Extended System Configuration Data (ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the operating system cannot boot	[Enabled], [Disabled]
Resources Controlled By	This item allows user to assign PnP resource (I/O address, IRQ&DMA channels) for Plug and Play compatible devices automatically or manually	[Auto] [Manual]
IRQ Resources	When resource are controlled by manually, assign each system interrupt a type , depending on the type of device using the interrupt. Option: [PCI Device]: Assign this IRQ for PCI device. [Reserved]: Reserve this IRQ for other device.	[Press Enter]
PCI/VGA Palette Snoop	This option is only very rarely needed. It should be left at “Disabled” unless a video device specifically requires the setting enabled upon installation.	[Disabled], [Enabled]
Maximum Payload Size	This field displays maximum payload size of the system	[128-4096]
PCI 1/2 IRQ Assignment	This item allows user to assign PCI IRQ for device	[Auto], [3] , [4] , [5] , [6] , [7], [10] , [11] , [12] , [14] , [15]

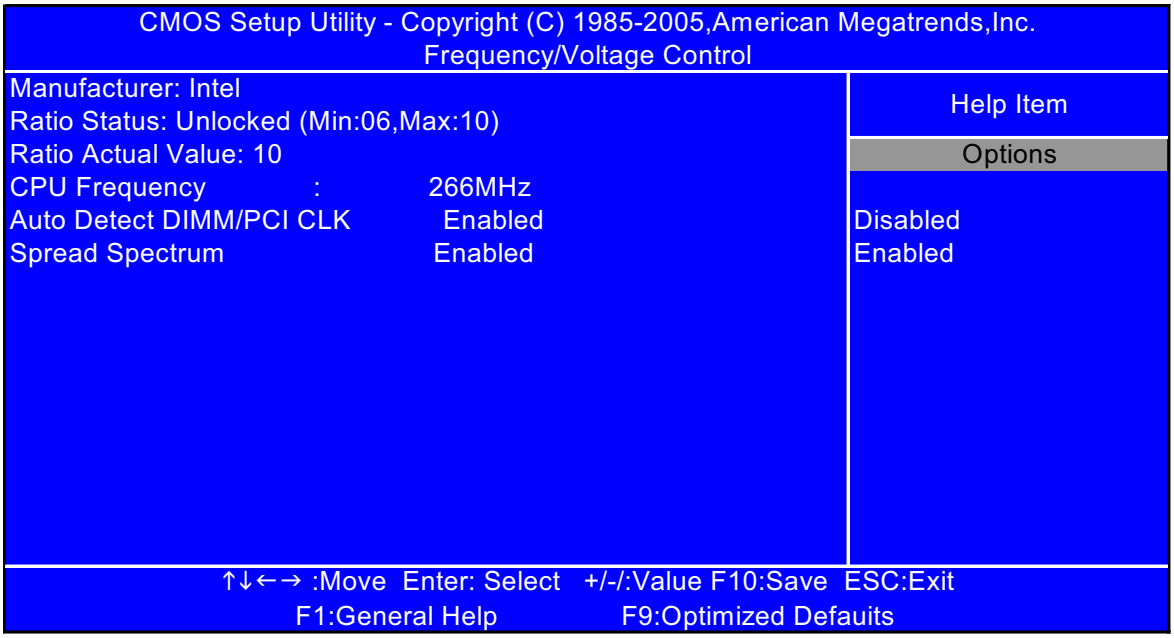
PC Health Status


CMOS Setup Utiliyt – Copyright (c) 1985-2005,American Megatrends, Inc.
PC Health Status
CPU Vcore 1.21V
+3.3V 3.34V
+5V 4.94V
+12V 11.90V
+5USB 5.16V
Voltage Battery 2.92V
Current CPU Temperature 49°F
Current SYSTEM Temperature 40°C
CPU FAN Speed 0 RPM
System FAN Speed 2900RPM
Item Help
Menu Level ▶
↑↓←→: Move ENTER: Select Item +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults

The following table describes the parameters found in this menu:

rameter	Description	Options
V core	Detect system's voltage status automatically	
CPU Temperature	Detect CPU Temperature automatically	
CPU/SYSTEM FAN Speed (RPM)	Detect CPU/SYSTEM Fan Speed Status automatically	
CPU Smart FAN Control	The item displays the system Smart Fan Function status. It is always enabled by system.	

Frequency/Voltage Control

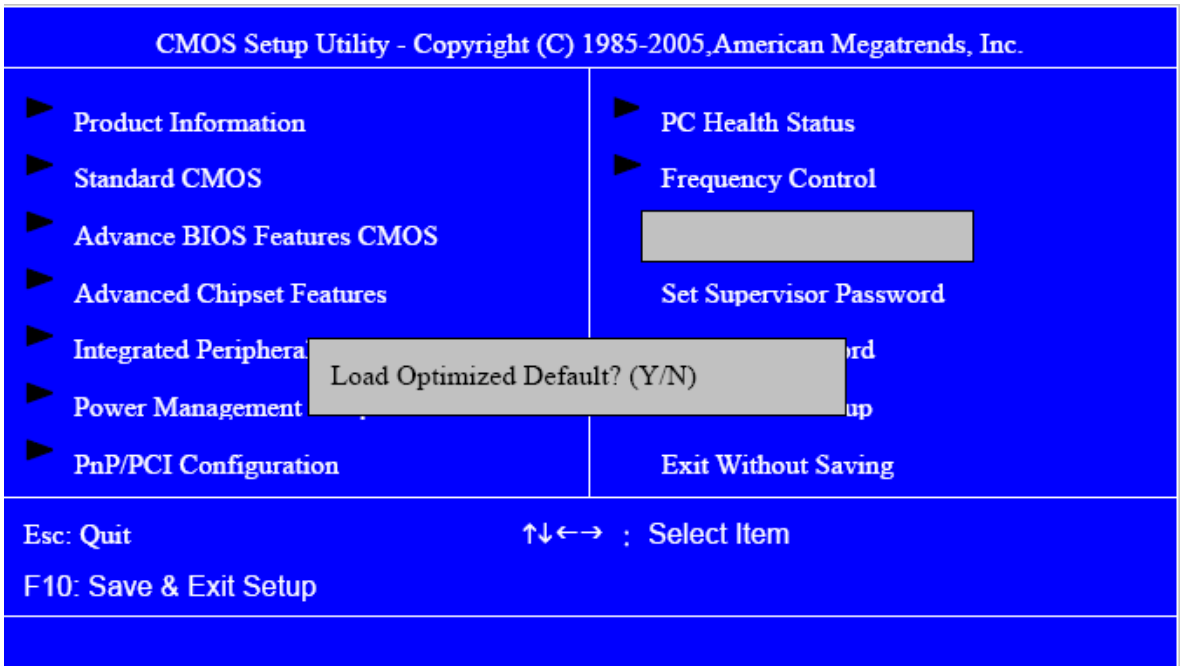


The following table describes the parameters found in this menu:

Parameter	Description	Options
Auto Detect DIMM/PCI CLK	This option allows you to enable/disable the feature of auto detecting the clock frequency of the installed PCI bus.	Enabled Disabled
Manufacturer	This item specifies CPU Manufacturer	Intel
CPU frequency	This item specifies CPU frequency	266MHz
Spread Spectrum	When the motherboard's clock generator pulses, the extreme values (spikes) of the pulses create EMI (Electromagnetic Interference). The spread Spectrum function reduces the EMI generated by modulating the pulses so that the spikes of the pulses are reduced to flatter curves. If you do not have any EMI problem, leave the setting at Disabled for optimal system stability and performance. But if you are plagued by EMI, setting to Enabled for EMI reduction. Remember to disable Spread Spectrum if you are overlooking because even a slight jitter can introduce a temporary boost in clock speed which may just cause your over lock ed processor to lock up.	Enabled

Load Default Settings

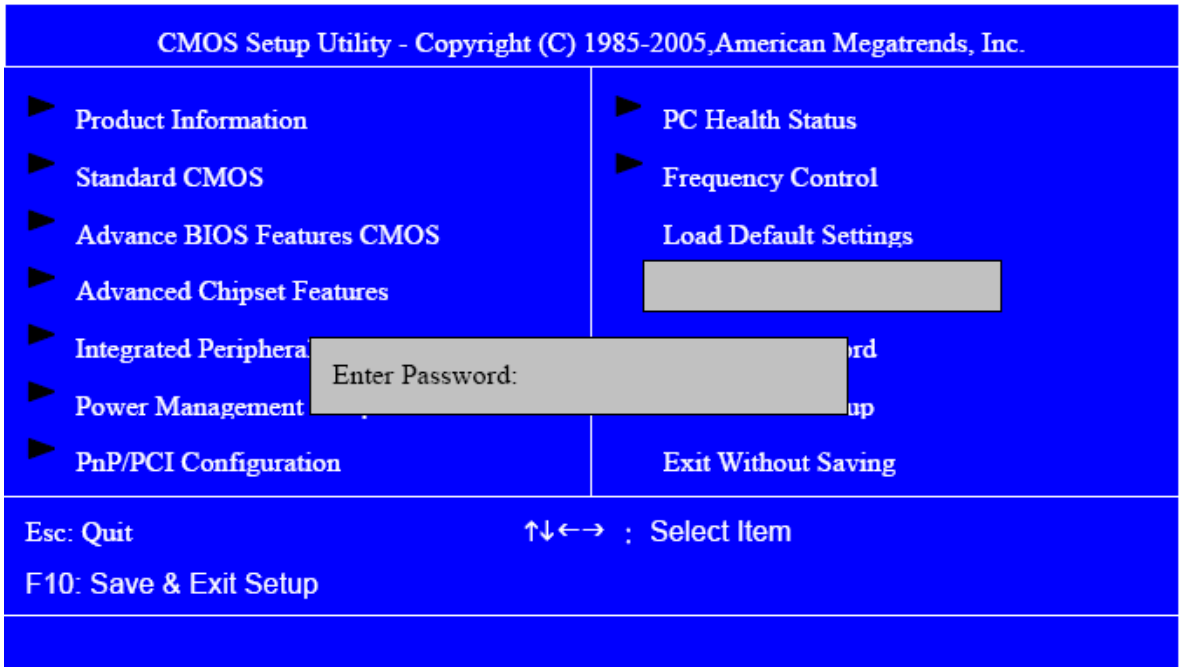
This option opens a dialog box that lets you install defaults for all appropriate items in the Setup Utility.



Parameter	Description	Options
Load Default Settings	Select the field loads the factory defaults for BIOS and Chipset Features, which the system automatically detects. This option opens a dialog box that lets you install optimized defaults for all appropriate items in the Setup Utility.	

Set Supervisor/User Password

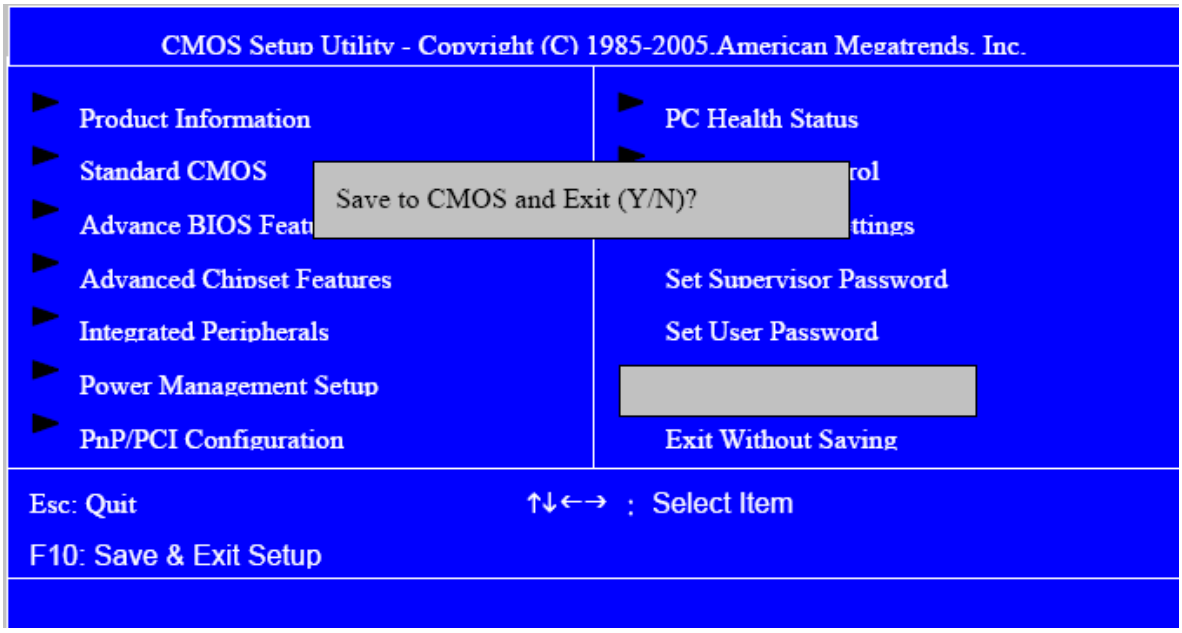
When this function is selected, the following message appears at the center of the screen to assist you in creating a password.



Parameter	Description	Options
Set Supervisor/User Password	When this function is selected, the following message appears at the center of the screen to assist you in creating a password. **ENTER PASSWORD** Type the password, up to eight characters, and press<Enter>. The password typed now will clear any previously entered password from CMOS Memory. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press<ESC> to abort the selection. **PASSWORD DISABLED** To disable password, just press<Enter> when you are prompted to enter password with empty. A message will confirm the password being disabled. If you have selected “System” in “Security Option” of “BIOS Feature Setup” menu, you will be prompted for the password every time the system reboots or any time you try to enter BIOS Setup. If you have selected “Setup” at “Security Option” from “BIOS Features Setup” menu, you will be prompted for the password only when you enter BIOS Setup. Supervisor Password has higher priority than User Password. You can use Supervisor Password when booting the system or entering BIOS Setup to modify all settings.	

Save & Exit Setup

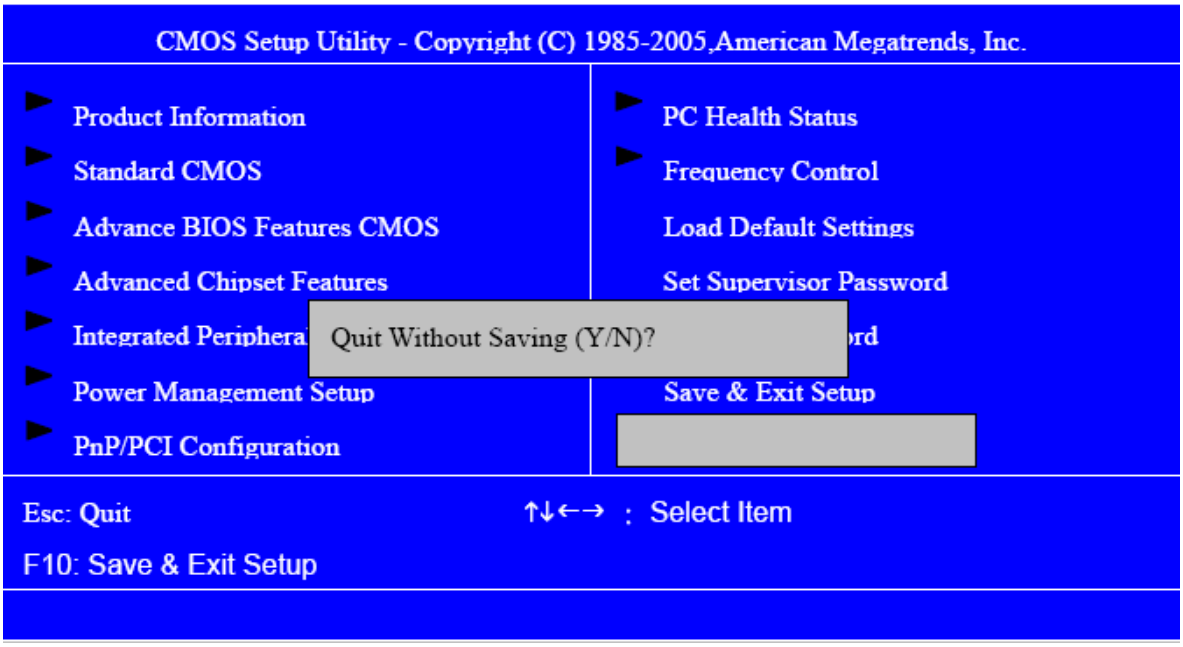
Highlight this item and press <Enter> to save the changes that you have made in the Setup Utility and exit the Setup Utility.



Parameter	Description	Options
Save & Exit Setup	Press <Enter> to save the changes that have made in the Setup Utility and exit the Setup Utility. Press<Y> to save and Exit or <N> to return to the main menu.	

Exit Without Saving

Highlight this item and press <Enter> to discard any changes that you have made in the Setup Utility and exit the Setup Utility.



Parameter	Description	Options
Exit Without Saving	Press<Enter> to discard any changes and exit the Setup Utility	

Machine Disassembly and Replacement

To disassemble the computer, you need the following tools:

Wrist grounding strap and conductive mat for preventing electrostatic discharge.

Wire cutter.

Phillips screwdriver (may require different size).

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatches when putting back the components.

General Information

Before You Begin

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system

Disassembly Procedure

This section tells you how to disassemble the system when you need to perform system service. Please also refer to the disassembly video, if available.

CAUTION: Before you proceed, make sure you have turned off the system and all peripherals connected to it.

Aspire L5100 Standard Disassembly Process

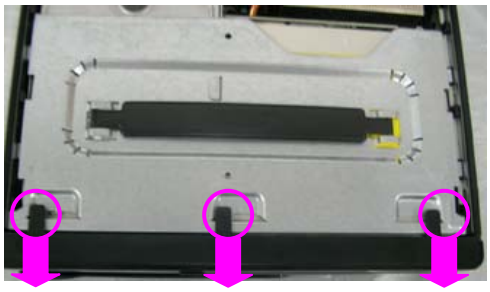
Opening the System

1. Place the system unit on a flat, steady surface.

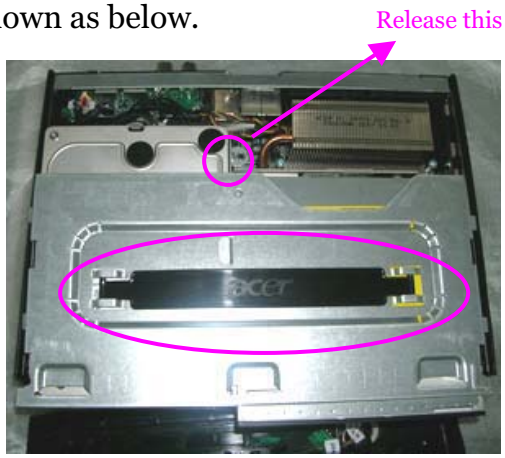
2. Release the screw that shown below.

3. Remove the top cover.

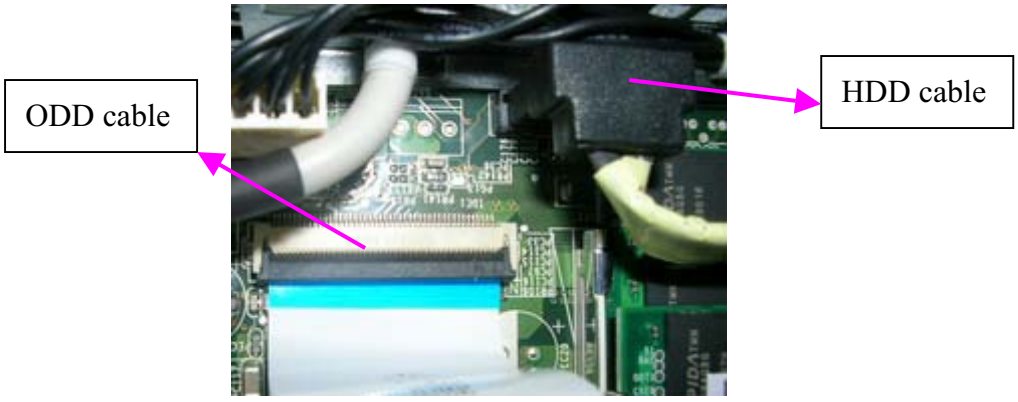
4. As shown pull three button up.



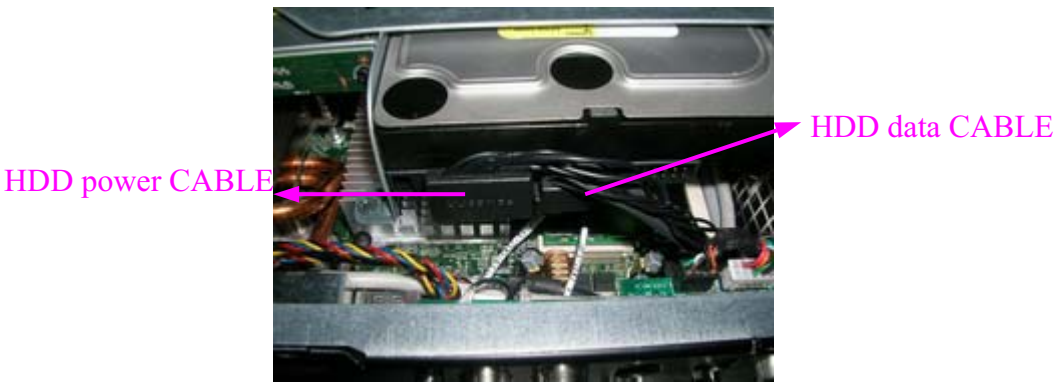
5. Take the belt shown as below.



6. Detach ODD & HDD data and power cable.



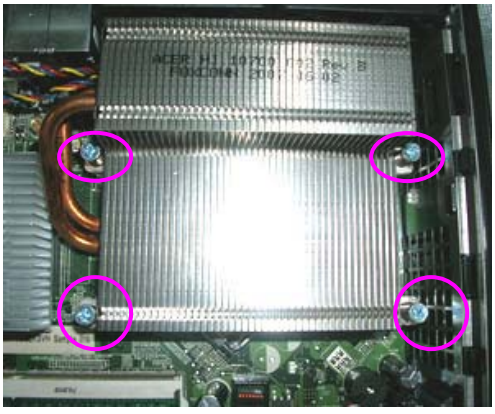
7. Detach HDD date and power cable.



8. Detach HDD SATA Data and power cable attach to MB

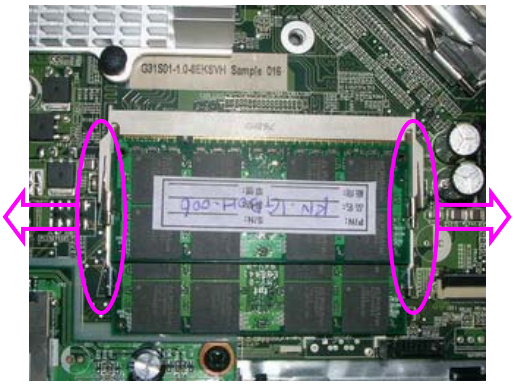
9. Detach LED cable.

10. Release four screws as shown below and disconnect the CPU cools.

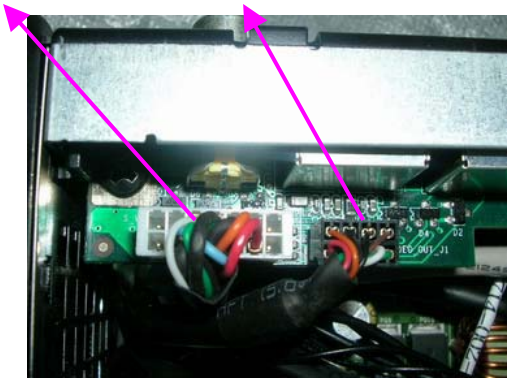


11. Disconnect the CPU.

12. Remove the Memory.

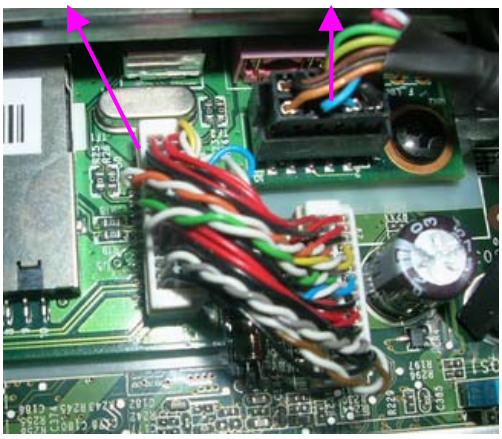


13. Remove the Video-in cable and TV-out cable.

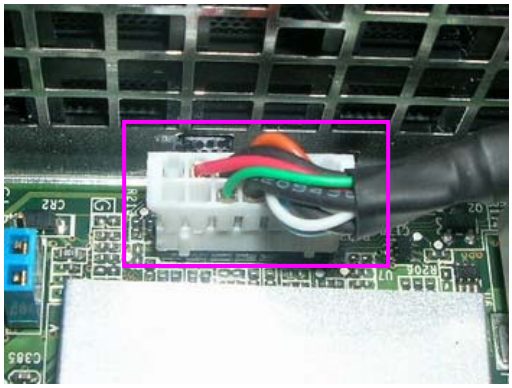


14. Remove the Front audio cable.

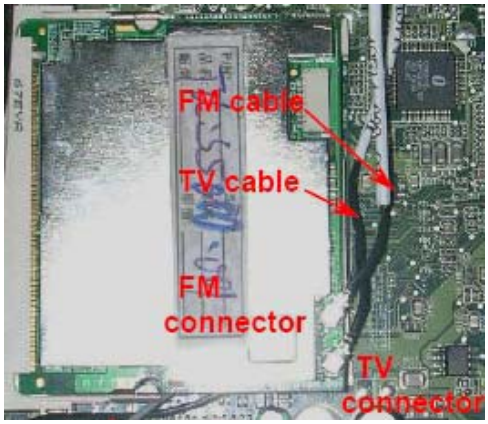
15. Remove the Front card reader cable and Front audio cable.

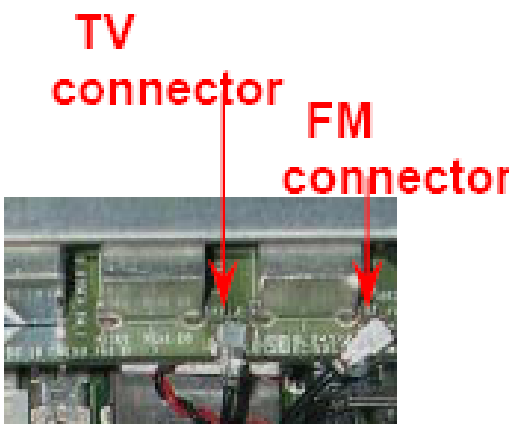


16.Remove the Video-in cable.

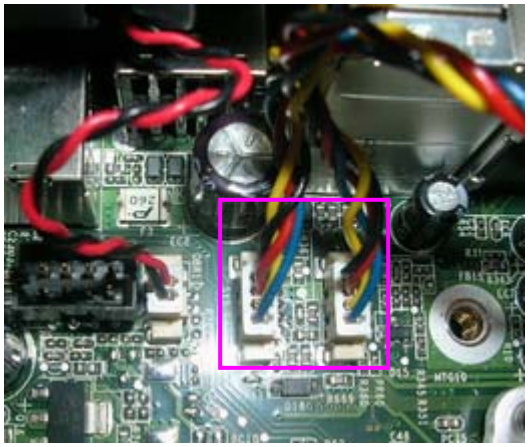


17.Remove the FM cable and TV cable.





18.Remove the SYS_FAN A Cable A&B.

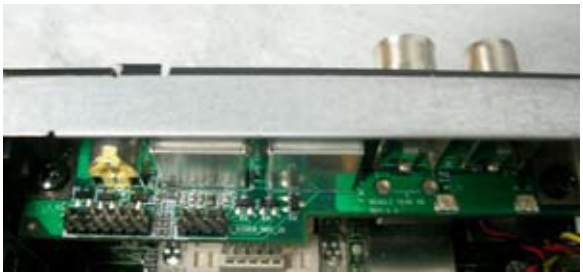


19.Release eight screws then remove the System FAN.

20.Remove the TV Card.

21.Remove the Wireless LAN Cable then release the LAN card.

22.Remove the Audio and Video Board.



23.Remove USB & Audio module.

24.Remove the MB.

Veriton L410 Standard Disassembly Process

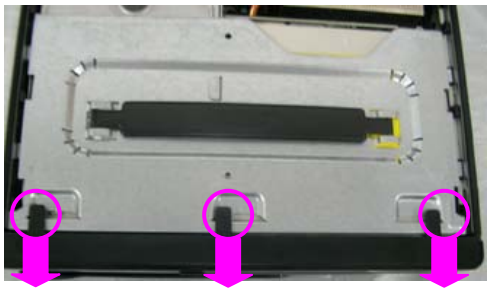
Opening the System

1.Place the system unit on a flat, steady surface.

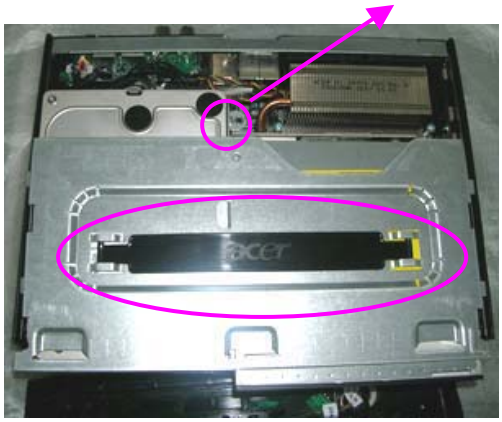
2.Release the screw that shown below.

3.Remove the top cover.

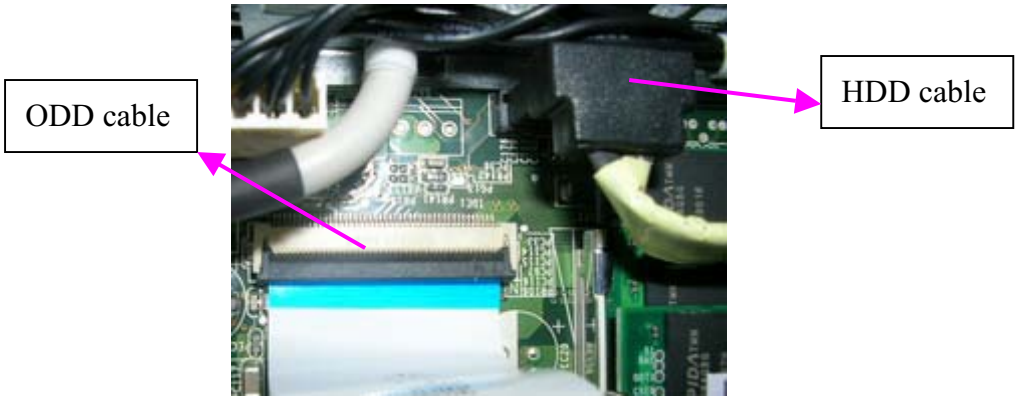
4.As shown pull three button up.



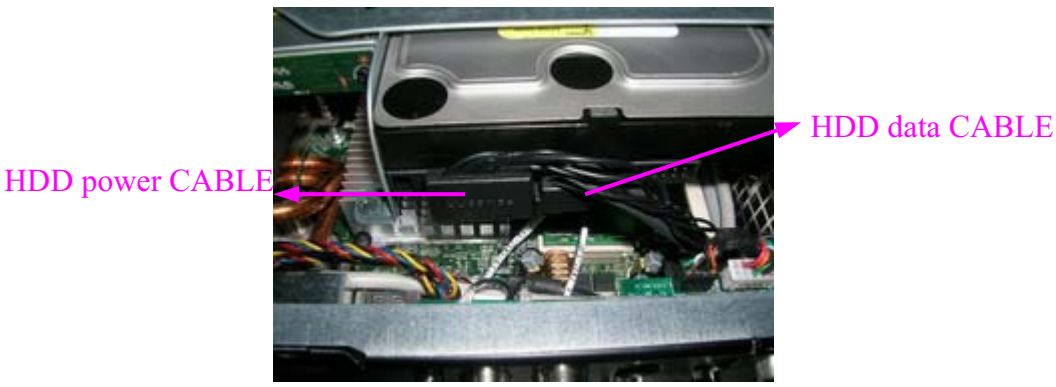
5.Take the belt shown as below.



6.Detach ODD & HDD data and power cable.



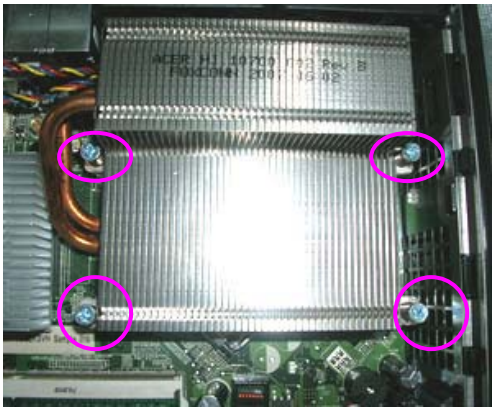
7.Detach HDD date and power cable.



8.Detach HDD SATA Data and power cable attach to MB

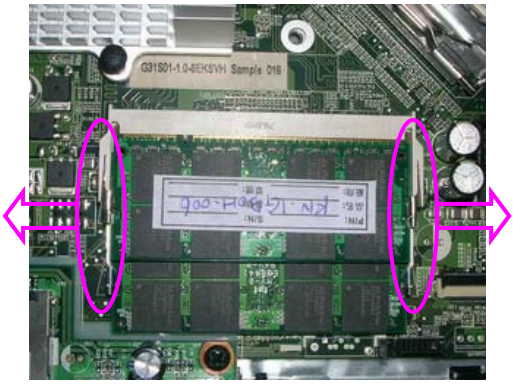
9.Detach LED cable.

10.Release four screws as shown below and disconnect the CPU cools.

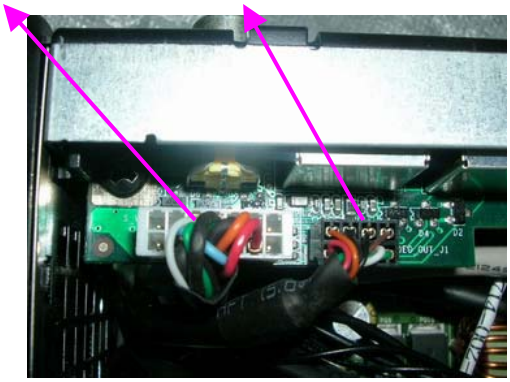


11.Disconnect the CPU.

12.Remove the Memory.

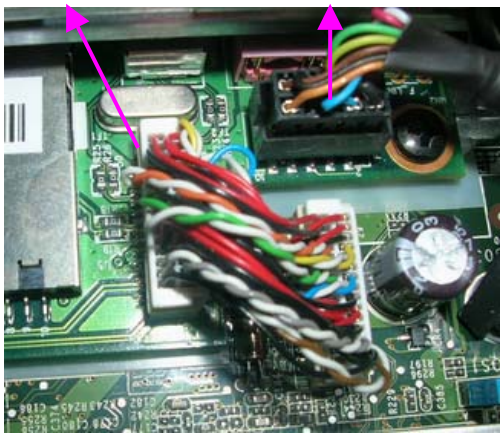


13.Remove the Video-in cable and TV-out cable.

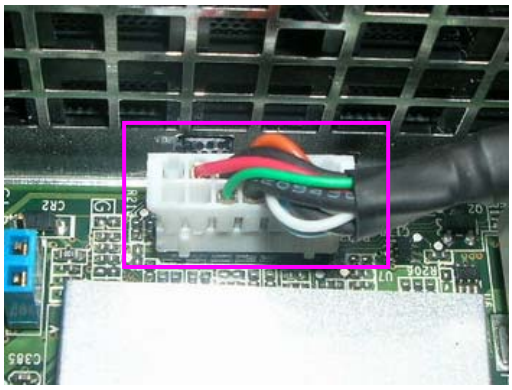


14.Remove the Front audio cable.

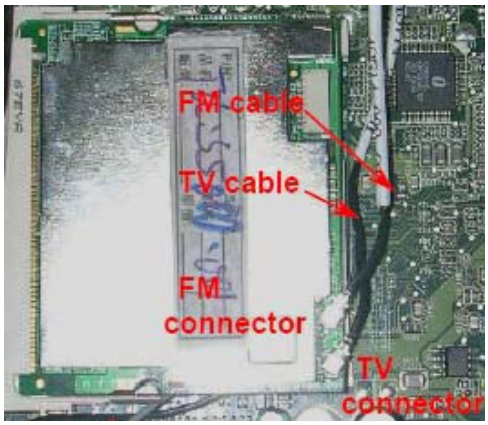
15.Remove the Front card reader cable and Front audio cable.

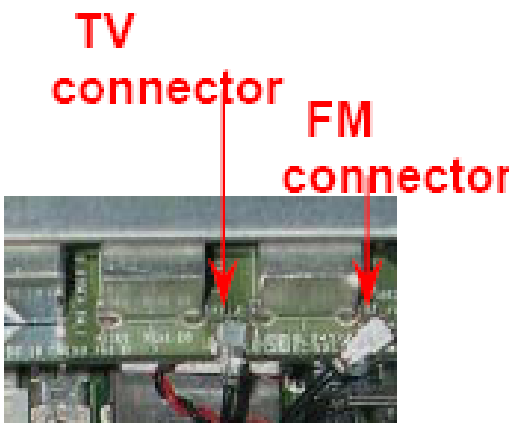


16. Remove the Video-in cable.

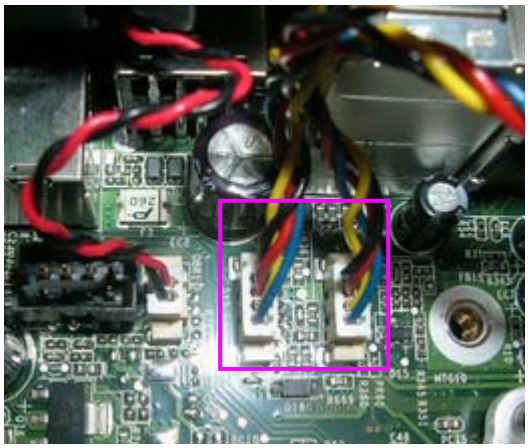


17. Remove the FM cable and TV cable.





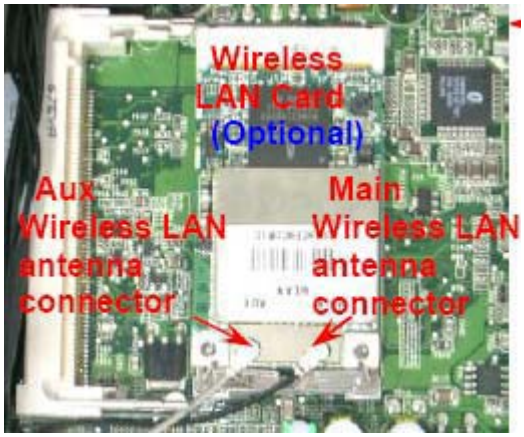
18. Remove the SYS_FAN A Cable A&B.



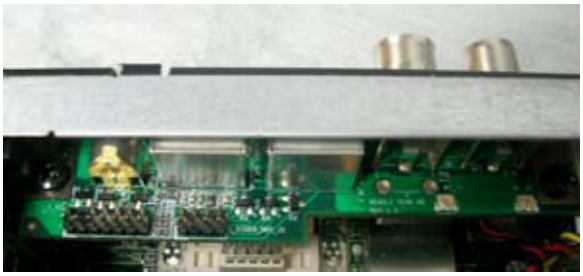
19. Release eight screws then remove the System FAN.

20. Remove the TV Card.

21. Remove the Wireless LAN Cable then release the LAN card.

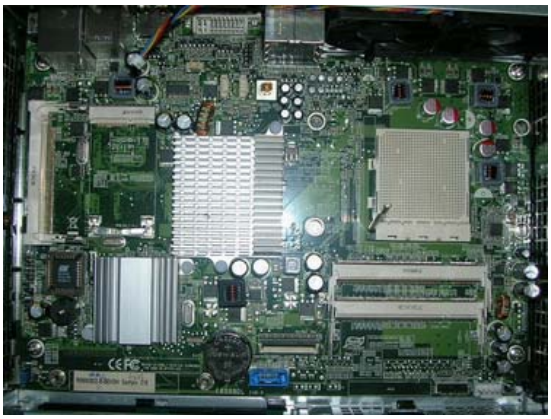


22. Remove the Audio and Video Board.



23. Remove USB & Audio module.

24. Remove the MB.



Troubleshooting

Please refer to generic troubleshooting guide for troubleshooting information relating to following topics:

- Power-On Self-Test (POST)
- POST Check Points
- POST Error Messages List
- Error Symptoms List

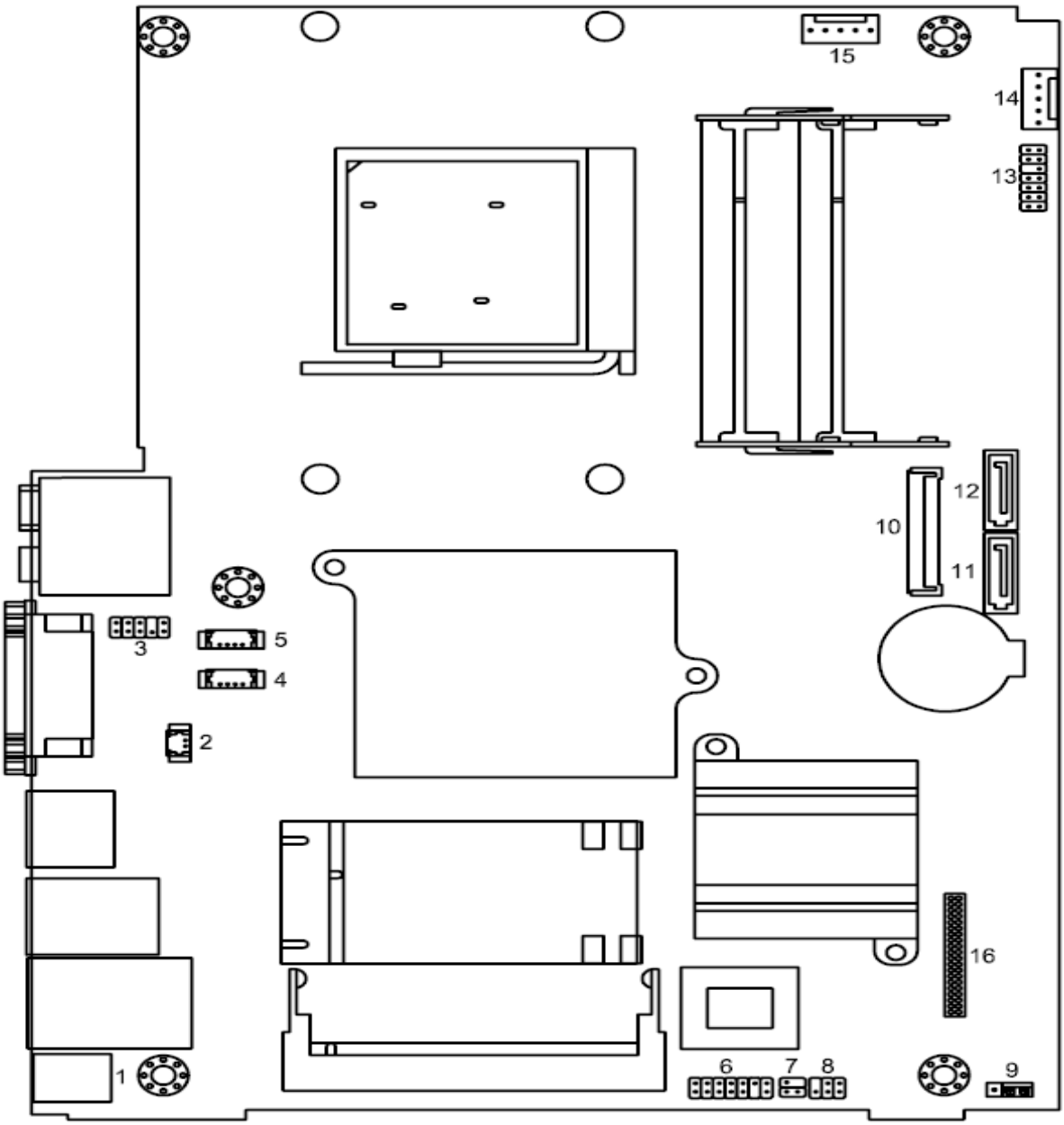
Jumper and Connector Information

Jumper Setting

This section explains how to set jumpers for correct configuration of the main board.

Setting Jumper

Use the motherboard jumpers to set system configuration options. Jumpers with more than one pin are numbered. When setting the jumpers, ensure that the jumper caps are placed on the correct pins.



1.Clear CMOS Jumper (No.9)

Jumper	Symbol	Description	Function
1 2 3 3-pin		1-2 closed	Clear CMOS
		2-3 closed	Normal (Default)

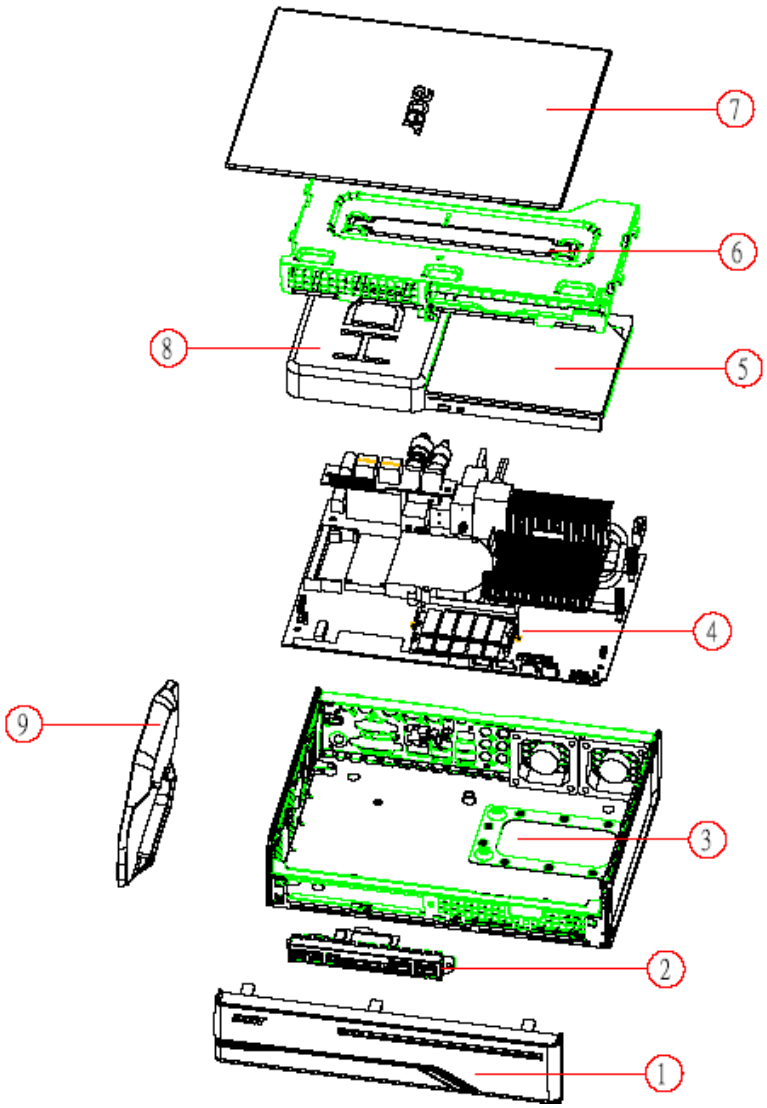
M/B onboard connectors		
No.	Connector marking	Description
1	DCIN1	M/B main Power connector
2	OBR1	System Recovery header
3	FAUDIO1	Front panel Audio header
4	SYS_FAN1	System fan header
5	CPU_FAN1	CPU fan header
6	MINIDIN1	SVIDEO in header
7	CIR1	IR header
8	F_USB1	Wireless mouse header
9	CLR_CMOS	Clear CMOS
10	IDE1	IDE device connector
11	SATA2	SATA device connector 2
12	SATA1	SATA device connector 1
13	FP1	Front Panel Switch/LCD
14	SATAP12CN1	SATA device power connector 2
15	SATAP5CN2	SATA device power connector1
16	F_1394_USB1	Daughte board connector

FRU (Field Replaceable Unit) List

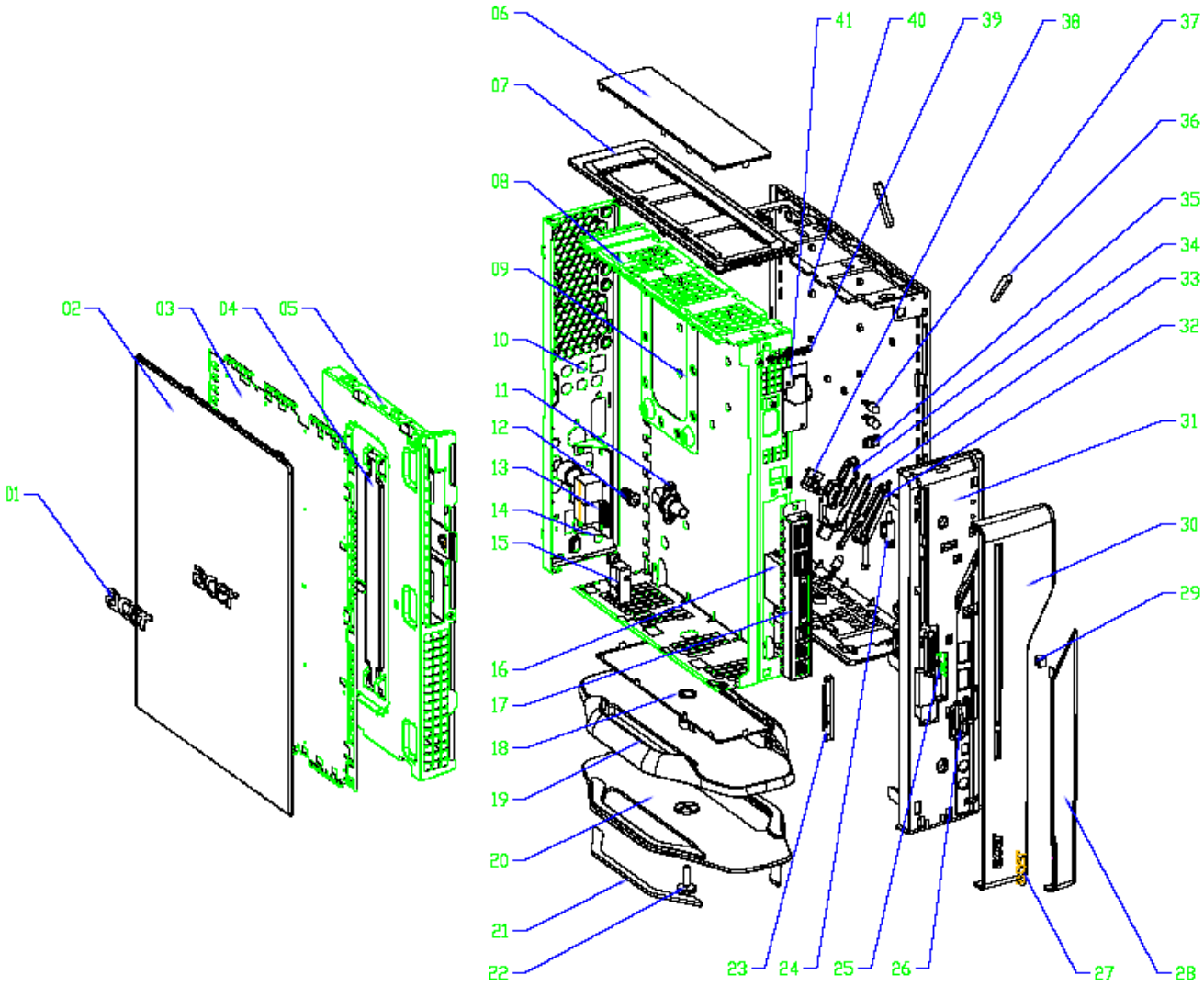
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of **Aspire L5100/Veriton L410**. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel (http://aicsl.acer.com.tw/spl/, if you do not own a specific account, you can still access the system with guest; guest). For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

Exploded Diagram



LABEL	DESCRIPTION
1	BEZEL
2	FRONT IO
3	CHASSIS
4	MOTHERBOARD
5	SLIM ODD
6	ODD AND HDD BRACKET
7	TOP COVER
8	HDD
9	PEDESTAL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NO.	PART NAME	MATERIAL	QTY	REMARK
41	RF-MODULE-ASM	STANDARD	1	
40	HUSKY_U_BASE	ABS	1	
39	W03-EF5-L-X1	COPPER	1	
38	SW-PCB-ASM	STANDARD	1	
37	LED	STANDARD	3	
36	FOOT-BEAGLE	RUBBER	4	
35	IR-LED-TSOP4836	STANDARD	1	
34	POODEL-POWER-SW-BRK	PC	1	
33	POODLE-POWER-LENS	PC	1	
32	POODEL-POWER-BUTTON	ABS	1	
31	POODEL-MAIN-BEZEL	ABS	1	
30	POODEL-BEZEL-COVER	PC	1	
29	MAGNET		1	
28	POODEL-USB-DOOR	PC	1	
27	ACER-LOGO02	STANDARD	1	
26	POODEL-ODD-BUTTON	PC	1	
25	L-ODD-BUTTON-BRK	SUS301	1	
24	DAMPER	STANDARD	1	
23	W03-EF5-R-X1	COPPER	1	
22	FOOT_PEDESTAL	RUBBER	2	
21	HUSKY_PEDESTAL_SCREW	C1018	1	
20	HUSKY_PEDESTAL_COVER	ABS	1	
19	HUSKY_PEDESTAL	ABS	1	
18	VENT-COVER-NEW-01	铁网	1	
17	SHEETMETAL-CARDREADER-BOX	GI	1	
16	CARDREADER_PCB_ASM	STANDARD	1	
15	DBR SWITCH ASM	STANDARD	1	
14	MINICARD-BKT	ABS	1	
13	DAUGHTER-BOARD PCB ASN	STANDARD	1	
12	ANTANNA-01	STANDARD	1	
11	TV-IN JACK	STANDARD	1	
10	POODLE-BACK-IO-01	GI	1	
9	HEAT SINK BRK	GI	1	
8	BOTTOM-SHIELD	SPTE	1	
7	SIDE_COVER	ABS	1	
6	VENT-COVER-NEW	铁网	1	
5	ODD-BKT	GI	1	
4	HD_BKT_HANDLE	PP	1	
3	TOP-SHIELD	SPTE	1	
2	TOP_COVER	ABS	1	
1	ACER_LOGO1	AL	1	

Parts

Aspire L5100/Veriton L410

CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
BOARD	POWER SWITCH DAUGHTER BOARD	POWER SWITCH DB	55.SA90F.003
BOARD	BOARD WITH RECOVER BOTTOM AND CABLE	BOARD WITH RECOVER BOTTOM AND CABLE	55.SA40F.001
BOARD	FRONT USB/AUDIO/CARD READER BOARD	FRONT USB/AUDIO/CARD READER BOARD	55.SA40F.002
CABLE	SATA HDD DATA CABLE	SATA HDD DATA CABLE	50.P410F.001
CABLE	SATA HDD POWER CABLE	SATA HDD POWER CABLE	50.P410F.003
CABLE	IR CABLE WITH SENSOR	IR CABLE WITH SENSOR	50.SA40F.001
CABLE	FRONT AUDIO CABLE	FRONT AUDIO CABLE	50.SA40F.002
CABLE	ODD CABLE	ODD CABLE	50.SA40F.003
CABLE	POWER SWITH AND POWER/HDD/ODD LED CABLE ASSY.	POWER SWITH AND POWER/HDD/ODD LED CABLE ASSY.	50.SA90F.002
CASE/COVER/BRACKET ASSEMBLY	ODD/HDD BRACKET W/I BLACK HANDLE	ODD/HDD BRACKET W/I BLACK HANDLE	33.P410F.001
CASE/COVER/BRACKET ASSEMBLY	HANDLE	HUSKY-HANDLE, ROHS	42.P35VF.001
CASE/COVER/BRACKET ASSEMBLY	FOOT_PEDESTAL ASSEMBLY, ROHS	FOOT_PEDESTAL ASSEMBLY, ROHS	42.P35VF.002
CASE/COVER/BRACKET ASSEMBLY	ACER_LOGO2 (POLISHED MYLAR)	ACER_LOGO2 (POLISHED MYLAR)	47.S600F.001
CASE/COVER/BRACKET ASSEMBLY	ACER LOGO ON SIDE DOOR	ACER LOGO ON SIDE DOOR	47.SA90F.001
CASE/COVER/BRACKET ASSEMBLY	H121 CHASSIS WITH AL500 BEZEL. TOP COVER, USB BRACKET,ODD-BRACKE,RUBBER FOOT,BOTTOM-COVER AND BACK I/O	H121 CHASSIS	60.SA40F.001
CASE/COVER/BRACKET ASSEMBLY	AL500 BEZEL WITH ODD-BUTTON, USB DOOR, POWER BUTTON, ACER LOGO, POWER SWITCH BOARD, LED CABLE	AL500 BEZEL	60.SA90F.003
CASE/COVER/BRACKET ASSEMBLY	BLACK SIDE DOOR	BLACK SIDE DOOR	60.V510A.001
ADD-ON CARD	MPC-718, HYBRID SILICON TUNER WITH HW ENCODER, FM, DUAL AV-IN, MCE, MPCI 3A (MT353)	MPC-718	TU.S5000.001
ADD-ON CARD	MPC788 HYBRID SILICON TUNER WITH SW ENCODER SW ENCODER, FM, DUAL AV-IN, MCE, MPCI 3A	MPC788	TU.10500.001
ADD-ON CARD	PRO-NETS 56K MODEM USB REV 1.0	VD56UL	FX.10100.001
ADD-ON CARD	BCM PCI-EXPRESS 802.11 B/G WLAN MODULE	T60H938.03 LF	NI.10200.001
COMBO MODULE	CW-8124 , SLOT IN , WITH STANDARD BEZEL	CW-8124 , SLOT IN , WITH STANDARD BEZEL	KO.02406.019
DVD RW DRIVE	8X SUPER MULTI (DL), SLOT, DVR-K06RS, LF, W/I STANDARD BEZEL	DVR-K06RS	KU.00805.037
DVD RW DRIVE	8X SUPER MULTI (DL), SLOT , LG , WI STANDARD BEZEL	8X SUPER MULTI (DL), SLOT , LG , WI STANDARD BEZEL	KU.00807.040
CPU/PROCESSOR	ATH64 X2 5000+ 940 (G1)	ADO5000IAA5DD	KC.A5002.X2G
CPU/PROCESSOR	AMD AM2 ATHLON64 X2 4800+ 940 (G) 2.5G/512KB*2 ADO4800IAA5DD	ADO4800IAA5DD	KC.A4802.X2G
CPU/PROCESSOR	ATH64 X2 4400+ 940 (G1) 65W	ADO4400IAA5DD	KC.A4402.X2G
CPU/PROCESSOR	AMD AM2 ATHLON64 X2 4000+ 940 (G) 2.1G/512KB*2 ADO4000IAA5DD	ADO4000IAA5DD	KC.A4002.X2G
CPU/PROCESSOR	A64X2BE2300	BE2300	KC.ABE02.230
CPU/PROCESSOR	A64X2BE2350	BE2350	KC.ABE02.235
CPU/PROCESSOR	AMD AM2 ATH64 4000+ 940 (F3) 2.6G/512KB ADA4000IAA4DH	ADA4000IAA4DH	KC.A4002.0DF

CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
CPU/PROCESSOR	AMD AM2 SEMPRON 3800+ 940 (F) SDA3800IAA3CN	AMD AM2 SEMPRON 3800+ 940 (F) SDA3800IAA3CN	KC.S3802.00F
CPU/PROCESSOR	CPU AMD Athlon64 3800+ PGA 2.4G 512K 2000 940 F3-CZ	ADA3800IAA4CZ	KC.A3802.0CF
CPU/PROCESSOR	AMD AM2 ATH64 3800+ 940(F3) ADA3800IAA4DH	ADA3800IAA4DH	KC.A3802.0DF
CPU/PROCESSOR	AMD AM2 ATHLON64 X2 4600+ 940 (F) ADO4600IAA5CU 2.4G/512KB*2	ADO4600IAA5CU	KC.A4662.X2F
CPU/PROCESSOR	CPU AMD Athlon64X2 BE-2400 PGA 2.3G 2x512K 2000 940 45W G2	ADH2400IAA5DO	KC.ABZ02.240
FAN SINK	FAN SINK,PHP609GB1012	HEAT SINK PHP609 BEAGLE	HI.10700.002
FAN SINK	SYSTEM FAN AFB0512HHB-6T32 CABLE LENGTH	SYSTEM FAN AFB0512HHB-6T32 CABLE LENGTH	23.SA40F.001
HDD/HARD DISK DRIVE	HGST 3.5" 7200RPM 80GB HDS721680PLA380 PATHFINDER II SATA II LF	HDS721680PLA380	KH.08007.024
HDD/HARD DISK DRIVE	HITACHI 160G HDD 7200RPM PATHFINDER-2 SATA HDS721616PLA380	HDS721616PLA380	KH.16007.015
HDD/HARD DISK DRIVE	HGST 3.5" 7200RPM 250GB HDT25025VLA380 VANCOUVER V SATA II LF	HDT25025VLA380	KH.25007.010
HDD/HARD DISK DRIVE	HITACHI 400G 7200RPM VANCOUVER-5 SATA HDT725040VLA380 FW:V5COA73A	HDT725040VLA380	KH.40007.007
HDD/HARD DISK DRIVE	HITACHI 500G HDD 7200RPM VANCOUVER-5 SATA HDT725050VLA380 FW:V560A73A	HDT725050VLA380	KH.50007.002
HDD/HARD DISK DRIVE	WD 160G 3.5" 7.2RPM XL160 WD1600AAJS-22PSA0 SATAII 3G 8MB LF W/NCQ, ROHS	WD 160G 3.5" 7.2RPM XL160 WD1600AAJS-22PSA0 SATAII 3G 8MB LF W/NCQ, ROHS	KH.16008.018
HDD/HARD DISK DRIVE	320G SATA2 WD3200AAJS-22RYA0 3G 8MB LF W/NCQ,ROHS	XL160M WD3200AAJS-22RYA0	KH.32008.011
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK US	KU-0420	KB.USB03.002
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK SIMPLIFIED CHINESE	KU-0420	KB.USB03.003
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK ARABIC/ENGLISH	KU-0420	KB.USB03.004
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK THAILAND	KU-0420	KB.USB03.005
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK US INTERNATIONAL	KU-0420	KB.USB03.006
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK CANADIAN FRENCH	KU-0420	KB.USB03.007
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 107KS WITH EKEY BLACK BRAZILIAN PORTUGUESE	KU-0420	KB.USB03.008
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK SPANISH	KU-0420	KB.USB03.009

CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK UK	KU-0420	KB.USB03.010
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK FRENCH	KU-0420	KB.USB03.011
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK GERMAN	KU-0420	KB.USB03.012
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK ITALIAN	KU-0420	KB.USB03.013
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK SWISS/G	KU-0420	KB.USB03.014
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK SWEDISH	KU-0420	KB.USB03.015
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK BELGIUM	KU-0420	KB.USB03.016
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK DUTCH	KU-0420	KB.USB03.017
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK PORTUGUESE	KU-0420	KB.USB03.018
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK ICELANDIC	KU-0420	KB.USB03.019
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK NORWEGIAN	KU-0420	KB.USB03.020
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK ISRAEL	KU-0420	KB.USB03.021
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK POLISH	KU-0420	KB.USB03.022
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK SLOVENIAN	KU-0420	KB.USB03.023
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK SLOVAK	KU-0420	KB.USB03.024
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK TURKISH	KU-0420	KB.USB03.025
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK RUSSIAN	KU-0420	KB.USB03.026
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK HUNGARIAN	KU-0420	KB.USB03.027
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK GREEK	KU-0420	KB.USB03.028
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK DANISH	KU-0420	KB.USB03.029

CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK CZECH	KU-0420	KB.USB03.030
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK ROMANIAN	KU-0420	KB.USB03.031
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK TURKISH-Q	KU-0420	KB.USB03.032
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK ARABIC/FRENCH	KU-0420	KB.USB03.033
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 109KS WITH EKEY BLACK JAPANESE	KU-0420	KB.USB03.034
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK TRADITIONAL CHINESE	KU-0420	KB.USB03.035
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 104KS WITH EKEY BLACK HEBREW	KU-0420	KB.USB03.036
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK SPANISH LATIN	KU-0420	KB.USB03.037
KEYBOARD	KEYBOARD CHICONY KU-0420 USB STANDARD 105KS WITH EKEY BLACK ITALIAN NEW LAYOUT	KU-0420	KB.USB03.038
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK US	WUG0570	KB.RF403.001
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK UK	WUG0570	KB.RF403.002
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK FRENCH	WUG0570	KB.RF403.003
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK ITALIAN	WUG0570	KB.RF403.004
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK GERMAN	WUG0570	KB.RF403.005
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK US INTERNATIONAL	WUG0570	KB.RF403.006
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK SWISS/G	WUG0570	KB.RF403.007
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK DUTCH	WUG0570	KB.RF403.008
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK BELGIUM	WUG0570	KB.RF403.009
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK ARABIC/ENGLISH	WUG0570	KB.RF403.010

CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK ARABIC/FRENCH	WUG0570	KB.RF403.011
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK SPANISH	WUG0570	KB.RF403.012
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK SWEDISH	WUG0570	KB.RF403.013
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK DANISH	WUG0570	KB.RF403.014
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK RUSSIAN	WUG0570	KB.RF403.015
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK FINNISH	WUG0570	KB.RF403.016
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK CZECH	WUG0570	KB.RF403.017
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK GREEK	WUG0570	KB.RF403.018
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK PORTUGUESE	WUG0570	KB.RF403.019
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK TURKISH	WUG0570	KB.RF403.020
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK NORWEGIAN	WUG0570	KB.RF403.021
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 104KS WITH EKEY BLACK TRADITIONAL CHINESE	WUG0570	KB.RF403.022
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 104KS WITH EKEY BLACK THAILAND	WUG0570	KB.RF403.023
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 105KS WITH EKEY BLACK HUNGARIAN	WUG0570	KB.RF403.024
KEYBOARD	KEYBOARD CHICONY WUG0570 RF2.4 RF2.4 STANDARD 109KS WITH EKEY BLACK JAPANESE	WUG0570	KB.RF403.025
KEYBOARD	USB KEYBOARD KU-0355 US VER. 104KS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.222
KEYBOARD	USB KEYBOARD KU-0355 US VER. 104KS JPN ABS(WITH EKEY VISTA) ROHS	KU-0355	KB.KUS03.233
KEYBOARD	USB KEYBOARD SK-9610 US VER. 104KS(WITH EKEY VISTA) ROHS	SK-9610	KB.USB0B.006
MAINBOARD	MAINBOARD ASPIRE FARS690U, W/ 1394, W/ HDMI W/O LOGO	MAINBOARD ASPIRE FARS690U, W/ 1394, W/ HDMI W/O LOGO	MB.SA409.001
MEMORY	DDRII667 512MB SO-DIMM GU33512AJEPN612C, ROHS	GU33512AJEPN612C	KN.5120H.008
MEMORY	UNIFOSA DDRII667 1GB SO-DIMM GU331G0AJEPN6E2C, ROHS	GU331G0AJEPN6E2C	KN.1GB0H.006
MEMORY	DDRII 667 , 1GB	HYMP512S64CP8-Y5	KN.1GB0G.006
MEMORY	DDRII667 1GB SO-DIMM	NT1GT64U8HB0BN-3C	KN.1GB03.014

CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
MEMORY	PROMOS DDR2 667 512 V916764B24QBFW-F5 (SODIMM)	V916764B24QBFW-F5	KN.5120M.004
POINTING DEVICE	KYE USB OPTICAL MOUSE, N12ROU NEW CYPRESS CHIP, BLACK, ROHS	N12ROU	MS.11200.005
POINTING DEVICE	USB OPTICAL MOUSE, MUV ACR1, LEAD-FREE, W/ STK LABEL LOGITECH	USB OPTICAL MOUSE, MUV ACR1, LEAD-FREE, W/ STK LABEL LOGITECH	MS.MUV01.005
POINTING DEVICE	CHICONY RF MOUSE WUG0570 (2.4G)	MG-0570T	MS.11200.009
RECEIVER	VISTA USB RECEIVER IR SPINEL PLUS OVU710001/00 (IR)	VISTA USB RECEIVER IR SPINEL PLUS OVU710001/00 (IR)	RV.11000.007
RECEIVER	SMK VISTA MCE RECEIVER	SMK VISTA MCE RECEIVER	RV.11000.002
REMOTE CONTROLLER	SMK VISTA MCE ICONIZED RC WITH 2 BATTERIES FOR EMEA	SMK VISTA MCE ICONIZED RC WITH 2 BATTERIES FOR EMEA	RT.11300.001
REMOTE CONTROLLER	PHILIPS VISTA MCE ICONIZED RC WITH 2 BATTERIES FOR EMEA	PHILIPS VISTA MCE ICONIZED RC WITH 2 BATTERIES FOR EMEA	RT.11300.005
REMOTE CONTROLLER	PHILIPS VISTA MCE ICONIZED RC WITH 2 BATTERIES FOR US	PHILIPS VISTA MCE ICONIZED RC WITH 2 BATTERIES FOR US	RT.11300.006
REMOTE CONTROLLER	PHILIPS VISTA MCE RC - TC EDITION WITH 2 BATTERIES	PHILIPS VISTA MCE RC - TC EDITION WITH 2 BATTERIES	RT.11300.007
REMOTE CONTROLLER	VISTA MCE CONTROLLER RC1534524/00G , WITH TWO BATTERIES	VISTA MCE CONTROLLER RC1534524/00G , WITH TWO BATTERIES	RT.11300.009
ADAPTER	DELTA 135W,SADP-135EB BCF BLUE1.7X5.5X11 LF	DELTA 135W,SADP-135EB BCF BLUE1.7X5.5X11 LF	AP.13501.010
ADAPTER	ADAPTER 135W 2.5X5.5X11 PA-11	ADAPTER 135W 2.5X5.5X11 PA-11	AP.13503.006
SPEAKER	JS 2.0 SPEAKER,USB,M-1118C ACER LOGO ROHS	M-118C	SP.10600.008
SPEAKER	LOGITECH 2.0 SPEAKER, S100, 230V WITH EUROPE PLUG TYPE,LOGITECH LOGO (ROHS)	S100	SP.S1006.007
SPEAKER	LOGITECH 2.0 SPEAKER, S100, 230V W/ AUSTRALIA PLUG TYPE, ACER LOGO (ROHS)	S100	SP.S1006.009
SPEAKER	LOGITECH 2.0 SPEAKER S100 110V W/US PLUG TYPE ACER LOGO&STK LABEL (ROHS)	S100	SP.S1006.010
SPEAKER	LOGITECH 2.0 SPEAKER, S100, 230V W/ UK PLUG TYPE, ACER LOGO (ROHS)	S100	SP.S1006.011
SPEAKER	SPEAKER 2.0 USB JS M-1118B, ACER LOGO, LEAD-FREE	SPEAKER 2.0 USB JS M-1118B, ACER LOGO, LEAD-FREE	SP.11805.003